Kocom. 11. 02

Ubiquitous Leader
KOCOM

Ubiquitous Leader KOCOM CCTV System

Ubiquitous Leader
KOCOM

KOCOM Color Digital High-resolution Camera and Digital Video Recording System will lead the high-end comprehensive security surveilance markets.

2011 / 2012
Products

CCTV SYSTEM

KOCOM DIGITAL SECURITY SOLUTION

※This catalogue is based on the date as shown in the right and specifications are subject to change without notice for quality improvement.

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Security

KOCOM Color Digital High-resolution Camera and Digital Video Recording System will lead the high-end comprehensive security surveilance markets.

KOCOM CCTV System

The applicable domains of KOCOM's CCTV system go beyond the simple monitoring function and extend to home network system, home automation, central control system and other system solutions for crime prevention and environmental monitoring. Along with the development of network products without time and space constraints and DVR (Digital Video Recorder), this product will lead the markets of Internet-connected advanced comprehensive security surveilance product

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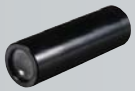
C & CS Mount Camera 25

Dome Camera 29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Accessory 77

10" Touch Quad DVR Videophone

Very unique item with All in One and necessary functions of life!!

Function

1. Videophone
- Call & Video Communication with a visitor
- Internal call & Communication
- Monitoring outside through a door camera or a CCTV camera
- Real-time Video Recording or by setting instructions
- Door open
- 5 Melody selection
- Extend communication time(3 min.)
- Upto 4 indoor units including Audio sub phones with 4 door cameras or CCTV cameras.

2. DVR
- INPUT : 4CH Camera, 4CH Audio, 1-CH Sensor,
- OUTPUT : 1CH video out(composite), 1CH Alarm
- Port : Ethernet(1xRJ45), 1xUSB2.0, 1xSD CARD(SDHC), RS-485
- Live : Digital Zoom(x2), Monitoring Mode(1,4&PIP)
- Recording :
  a. Resolution : NTSC-720x480, PAL-720x576
  b. Frames at [CIF] : 120/100
  c. Frames at [H.D1] :120/100
  d. Frames at [D1] : 60/50
  e. Pre/Post Recording : Pre(0~30s), Post(0~120s)
  f. Recording Mode : Manual/Continuous/Schedule/Motion/Sensor
- Playback :
  a. Speed : Fast Froward/Backward(x1/8/32/64/128), Frames by frame
  b. Search Method : By time, Calendar, Event First & Last
- Network :
  a. Dual Stream : Local Recording & Network Transmission (Network Transmission rates max. 120/100FPS)
  b. Web(I.E) : Live/ Playback/ Audio/PTZ/Snapshot
  c. CMS (software CD is included) : Live/Playback/Backup/PTZ/ Remote Setup/Local DVR Rebooting
  d. DDNS : Support free DDNS server-dyndns.com/no-ip.com
  e. Mobile Viewer : 3G Mobile Phones, iPhone, Android Phone
  f. Bandwidth : Adjustable (64/128/256/512Kbps, 1/2/4/10Mbps, Unlimited)
- Events & Alarm
- Events & Video Loss :
  a. Email Notification, Alarm-Out, Buzzer for Events & video Loss
  b. Motion Detection : Selected Area, Sensitivity in each channel
  c. Scheduling : mail Notification Schedule/Alarm Schedule for Events-Trigger
- Storage :
  a. Default : SD Card 32GB
  b. Extension : interlocking Harddisk by USB
  c. Network by CMS
- Web Browser : Auto installation by ACTIVE X
- WEB OS : XP, VISTA, WIN7

3. Home Control : lighting, curtain, and gas
- Communication : RS-485
- Control : GUI
- Device Control :
  a. Lighting : ON/OFF, Dimmer-7 levels
  b. Curtain : Open/Close/Stop
  c. Gas : Close
- Scheduling

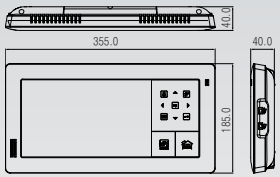
4. Digital Album
a. Format : BMP(16bit), JPEG(~5M) (※ in case of JPEG, file conversion is necessary using the program provided with the product.)
b. Auto File Size Adjustment (Play Mode)
c. Pre-view / Select / Play & Delete selected file

5. Calendar

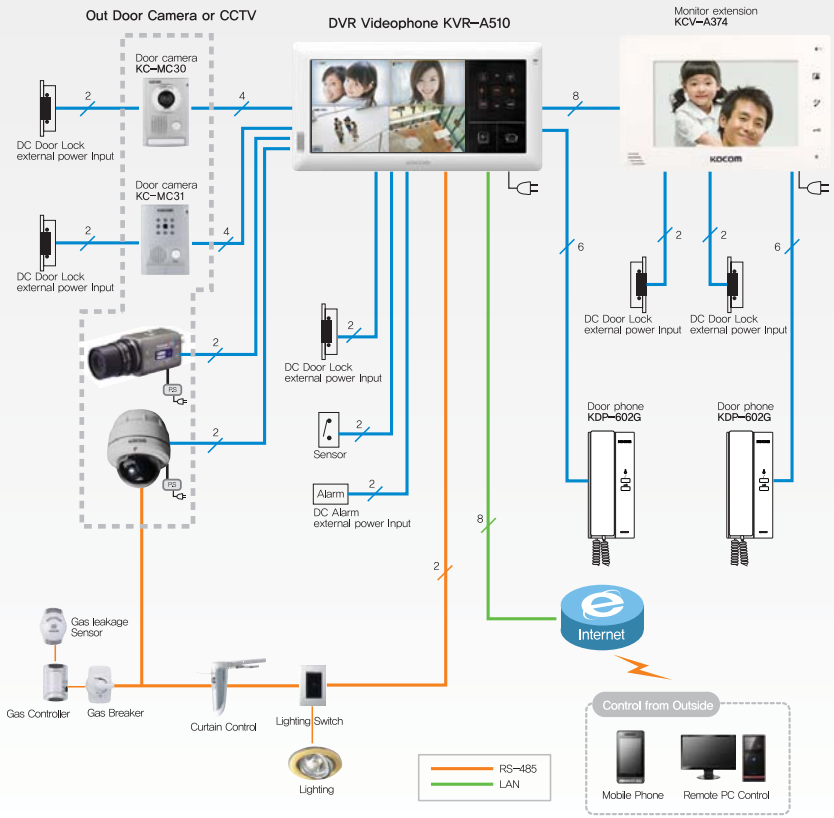
6. Clock

7. Screen Saver :
- Digital Album, Clock, OFF mode selection
- When an event occurs, display the event
- Scenario (※ optional)

Dimensions



System Configuration



Specifications

Model No.	KVR-A510	KVR-D510
Power	- AC Input : AC 90V-240V, 50Hz/60Hz	- DC Input : DC 13.8V(0.5V), MAX 3.5A
	Max : 30W ± 20%	
Power Consumption	0˚C~40˚C	
Assurance temp	10.1" DIGITAL COLOR TFT LCD PANEL	
Monitor	(NTSC / PAL Auto switching)	
Communication system	1 way Hands free communication	
System type	GUI switch based on Touch-Screen and Touch Key	
Display	- Quad Display - PIP - POP up - OSD & GUI	
Interface	- SD card : up to 32GB. (SDHC format) - USD HDD : up to 1TB for USB2.0 - USB Mouse available - USB Host for upgrading software (Plug and Play)	

Max. wiring distance	- 0.55 ø single cable : 30M - 0.65 ø single cable : 50M - 5C-2V coaxial cable : 100M
Wiring	- 4 wire (Monitor and front door camera) - 6 wire (Extension audio phone)
Melody	- 2 Electronic sound for from door camera - Buzzer sound for alarm and identification for touch screen
Mount type	- Surface mount or Desk top
Size	- Monitor : 355 x 185 x 40 - Cradle : 205 x 145 x 105
Door Camera Connection	- KC-MC30, KC-MC31, KC-MC24, KC-MC20, KC-MC35, KC-C60
Monitor Connection	- KCV-A374 / D374, KCV-A374SD / D374SD, KCV-W354 / DW354, KCV-801 / 801R, KCV-D801 / D801R

Zoom Camera
High Speed Dome Camera

KZC-SPT33IN KZC-SPT33OUT

33X Optical / 12X Digital Zoom High Speed Dome Camera

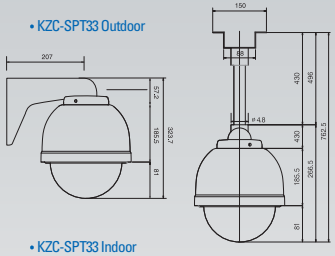
KZC-SPT33IN / SPT33OUT

Function

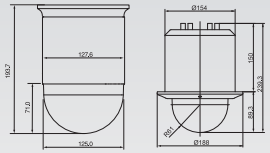
- 1/4" Sony Super HAD CCD (550TVL)
- Easy Interface with Multiple Protocol and Automatic Dome Protocol Detection
- IP66 Environmental Structure (Optinal outdoor housing)
- High Sensitivity with a Minimum Illumination 0.003 Lux (DSS, Black & White)
- RS-485 Communication for Long Distance Camera Application.
- 8 Zones of Image Masking for Privacy
- Max. 380 °/sec Panning Speed (Preset recall Speed)
- Up to 248 Programmable Preset Positions
- Up to 8 programmable Tours
- 4 Memorized User Control Patterns up to 240 seconds (Speed and Position, Lens Controls)
- Outdoor External Pendant Mount Housing with Heater and Blower (Optional)
- 8 Alarm Inputs and 2 Outputs
- Digital Flip Function
- RS-422, 485 Communication and Remote Program Update
- AC 24V, 1A / AC 24V, 2A (Outdoor housing)

Dimensions

• KZC-SPT33 Outdoor



• KZC-SPT33 Indoor



Specifications

Model no.	KZC-SPT33	
Image Sensor	1/4 inch Sony Super HAD CCD	
Total Pixels	811(H)X508(V)-NTSC	795(H)X596(V)-PAL
Effective Pixels	768(H)X494(V)-NTSC	752(H)X582(V)-PAL
Focus mode	Auto / Manual / One-Push Focus	
Iris mode	Automatic with Manual Override	
Video Output	Composite 1.0Vp-p, 75 Ω, BNC	
Sync.	Internal Sync / External Sync. (AC Line Lock)	
S / N Ratio	Higher than 52dB (AGC OFF)	
H. Resolution	550TV Lines (Color, 30 IRE)	
Min. Illumination	0.4 Lux/F1.6(Color), 0.02 Lux/F1.6(B/W), 0.00005 Lux(B/W,Sense-up 512x) / (@50IRE)	
Electronic Shutter	Auto / Manual / A.FLK (1/120,000 - X256)	
Sens-Up	ON (X2-X128 Fields) / OFF	
Day & Night	AUTO / COLOR / BW / EXT, IR-Cut Filter Removable	
White Balance	ATW (Indoor / Outdoor Selection) / AWC / Manual (1,800K-10,500K)	
Flickerless	Fixed Shutter Speed (1/100) / Fixed Shutter Speed (1/120)	
Iris	Auto Manual(Iris Level Adjustment Mode)	
Gain Control	Low, Middle, High, Off	
OSD Display	Display ON / OFF	
Outline Correction	Adjustable Level	
Focal length	F3.5 ~ 115.5mm (F 1.6 to 3.6)	
Digital zoom	OFF, ON (Limit 12X) (Total 396X Zoom)	
Max. Aperture Rate	Light Angle 1:1.6 Telescopic 1:3.7	
Coverage Angle	F=3.5mm 55.5° (Horizontal) X 42.5° (Vertical)	
	F=115.5mm 1.77° (Horizontal) X 1.33° (Vertical)	
Proximity Distance	1.2m (Tele level)	
Pan	360° Continuous Pan 0.1 to 90° / sec (64 steps proportional to zoom)	
Preset Speed(Pan)	380° / sec, ± 0.1° Accuracy	
Tilt	0.1° to 90° / sec. (proportional to zoom)	
Preset Speed(Tilt)	150° / sec, ±0.05° Accuracy	
Weight (Unit)	Indoor : 4Kg / Outdoor : 5Kg	
Ingress Protection	IP66 (Outdoor housing)	
Construction	Aluminum	
Operating Temp	Indoor : 0°C to 50°C / Outdoor : -40°C to 50°C	
Humidity	0% to 90% (non-condensing)	
Preset	248 points (less than 0.1° Accuracy)	
Tour	8 programmable	
Pattern	4 patterns for 240 second.	
Flip	Digital / Auto / Off (rotate 180° at bottom of tilt)	
Auto Scan	8 (programmable speed and diagonal scan)	
Privacy Zone	8 blocks with title (Mask / Video off)	
Address	Up to 999 selectable ID (Rotary switch)	
Control	RS-485 / RS-422 Multiple protocol (Auto detection)	
	2400,4800,9600,19200bps selectable	
Alarm	In : 8alarm (NO/NC, Priority) Out : 2 relay out (Hold, Latch)	
Display	16Area title / North direction on/off (N,S,W,E) / Zone title on/off(8 character)	
Power	AC 24V / 1A, 50 / 60Hz	
Consumption	18.0W (1A Max.)	
Heater	30W (Optional outdoor housing)	
Fan	3.4W (Optional outdoor housing)	

System Keypad Joystick Controller

KJC-2000

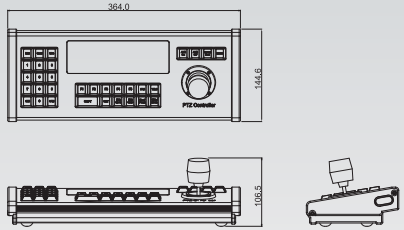
Function

- Remote Controllable PTZ and DVR
- Recalls up to 255 Cameras from one Keyboard.
- Joystick for Fixel-Speed and Variable-Speed control of Pan/Tilt Units
- Built-in Graphic LCD Monitor with Blue Screen,
- Programmable User Preferences. (Preset, Tour, Group, Etc.).
- User Password Support.
- Supported DVR Protocol (Need to be modified)
- Multiple Protocol Support

Specifications

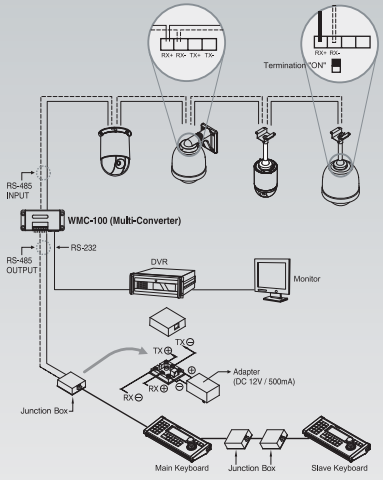
Model No.	KJC-2000
Keyboard Communication	Pan / Tilt interface : RS-485
	DVR interface : RS-485
	Pan / Tilt operating distance : 4000ft(1029m) on 24 AWG wire
	Protocols: Pelco D, Pelco P, etc. (Baud rate selectable)
Connector Type Data	RJ-11 6-pin modular
Keyboard Keypad	PC Keyboard button, Numeric keypad and camera funcion keys.
Joystick	3-Axis, Vector solving, Twisting, Return- to-center head.
Input Voltage	12V DC ±2V
Power Consumption	Max. 450mA
LCD Disply	Graphic display
	240x640dots. Display 4-Line, 30-character alphanumeric
	LCD display with blue backlight
Operating Temperature	0°C to 45°C
Humidity	10%~70% non-condensing
Dimensions	372(W)x103(H)x145(D)mm
Weight	1.4kg

Dimensions



Picture View

Diagram



Zoom Camera
Mini Speed Dome Camera

KZC-VISPT10 (Indoor)

KZC-VOSPT10 (Outdoor)

10X Optical / 10X Digital Mini Speed Dome Camera

KZC-VISPT10 / VOSPT10

Function

- 1/4" Interline Transfer CCD, 500TVL(Min.)
- 10x Optical Zoom (f=3.8 to 38mm (F1.8)), 10x Digital
- Color : 0.7Lux/F1.8(50 IRE) , B/W: 0.02Lux/F1.8
- Day & Night (ICR), DSS, OSD
- 240Preset, 8Pattern, 8Tour, 8Scan, 32Privacy Zone
- 360° Endless Panning Rotation
- Preset Speed : Max. 400°/ sec
- Auto Flip/Parking, Auto Multi Protocol
- Termination Free, RJ45 single cable, RS-485 (Pelco-D/Pelco-P)
- Self Calibration (Automatic Recognition of Position Compensation)
- Vandal Proof, IP67(Waterproof)
- Built-in Fan & Heater (KZC-VOSPT10)
- DC 12V, Options : Bracket

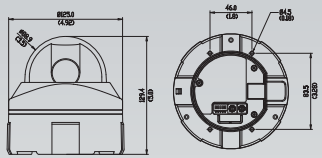
Specifications

Model no.	KZC-VISPT10	KZC-VOSPT10
Image Sensor	1/4" Interline Transfer CCD	
Total Pixels	NTSC: 768(H) x 494(V), PAL: 752(H) x 582(V)	
Optics	10x,f=3.8 to 38.0mm(F1.8)	
Min Focus Distance	1,000mm	
Scanning System	2:1 Interlace	
Resolution	Color(Wide) : 500TVL(Min.), B/W (Wide) : 570TVL(Mlin.)	
S/N Ratio	50dB (AGC off)	
Gamma Correction	0.45 or 1(Selectable)	
Video Output Signal	VBS 1.0V p-p Composite (750hm Load)	
Min. Illumination	Color : 0.7Lux/F1.8(50IRE), B/W : 0.02Lux / F1.8(50IRE)	
Day & Night	Auto 1, Auto 2, Color, B/W(ICR)	
White Balance	ATW/AWC/Manual (1,800°k~10,500°k)	
Video Output	CVBS : 1.0Vp-p/75 Ω	
Pan Angle/Speed	360°Continuous Rotation, 0.1°~400°/sec	
Tilt Angle/Speed	2°~90°, 0.1°~300°/sec (According to Zoom Speed)	
Preset Speed	Max. 400°/sec	
Preset	1~240 Preset	
Guard Tour	8 Guard Tour (Preset,Pattern,Auto Scan,Tour Input)	
Pattern	8 Pattern, 960sec Memory	
Communication	RS-485 Baud Rate 2400(Default) / 4800 / 9600 / 38400	
Auto Scan	8 Auto Scan	
Dome ID	1~255 Camera ID	
Alarm	4 Alarm Input / 1 Output	
Screen Display	Camrea ID, Pan/Tilt Angle, Flip, Zoom	
Power Source	DC12V 1A	DC 12V 2A
Operating Temperature	-10°C~50°C	-20°C~60°C
Operating Humidity	0~90%RH(Non-Condensing)	
Material	Ploycarbonate bubble dome/ Aluminum main body	
Dimension	ø125(W)x129.4(H)mm (3.5" Bubble Dome)	ø132.5(W)x162.05(H)mm (3.5" Bubble Dome)
Weight	Approx.780g	Approx. 1400g

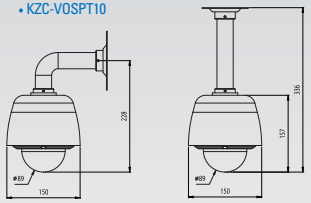
Picture View

Dimensions

• KZC-VISPT10



• KZC-VOSPT10



System Keypad Joystick Controller

KJC-200J

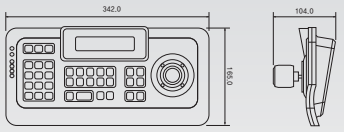
Function

- Easy Installtion
- PTZ/DVR/Matrix/Monitor Control
- Preset/Tour/Pattern/Auto Scan Control
- Built in Joystick for easy control of Pan / Tilt / Zoom In/Out
- Multi Protocol Built in (Standard, Pelco D/P etc.,)
- Slave Controller Extendable
- RS-485 Communications (Max. 1.2Km)
- Up to 999 Camera and 255 DVR Control
- Variable Speed Control Using 3-Axis
- Including Junction Box
- Easy Expansion to slave controller
- Power : DC 12V

Specifications

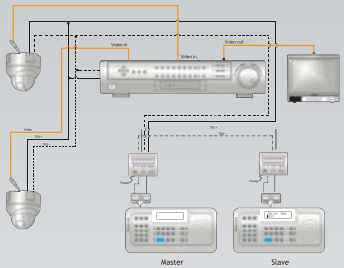
Model No.	KJC-200J
Controls	Built- in 3Axis Joystick
Joystick	Pan/Tilt move and Zoom Wide / Tele control
Display	16 Characters, x2 Line LCD
Housing	Table desk Housing 6 cores
Connection cord	5m Long, Pre-assembled with Western plug
Operating Voltage	DC 12V
Consumption	3W
Addressing	Adjustable via Software
Output	RS-485 interface
Operating Temperature	-10 C ~ 55 C
Operating Humidity	0~90%RH (Non-Condensing)
Material	ABS Plastic
Dimension	342x165x104(mm)
Weight	Approx. 900g

Dimensions



Picture View

Diagram



Zoom Camera

High Speed Dome Camera

KZC-IR374

KZC-IR370

KZC-IR372

Super Night Vision IR LED Zoom Camera

KZC-IR374 / IR372 / IR370

KZC-IR35

KZC-IR10

Long Distance View Day & Night IR LED Camera

KZC-IR35 / KZC-IR10

Function

- 1/4 "SONY EXview HAD CCD
- Built-in Auto Focus Optical Power Zoom Lens (Optical 37x, Digital 12x)
- WDR(Wide Dynamic Range)
- Horizontal Resolution 550TVL(Min.)
- Day & Night(ICR), 0.01 Lux with ICR ON
- DSS(Digital Slow Shutter)
- Built in Hybrid IR LED(6ea)& Sub-IR Illuminator LED(Only ENV-362/364)
- IR visible range : MAX. 150M
- Built in OSD, RS-485(Pelco D/ P)
- Built-in Heater & Fan
- Operating Temperature Range : -9 F ~ 122F (-20 C~50 C)
- Vandal proof (Full Body Aluminum & Polycarbonate Bubble)
- IP67 (waterproof)
- CE, FCC, VCCI, RoHS Compliance.
- Cable Managed Bracket, Second video output

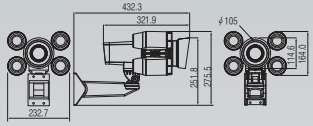
Picture View

Specifications

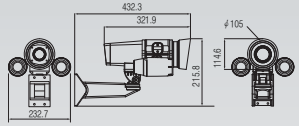
Model.No	KZC-IR374 / IR372 / IR370	
TV System	NTSC	PAL
Image Device	Sony 1/4" EXview HAD CCD	
Lens	37x Optical Auto Focus Zoom (12x Digital Zoom)	
Working Distance	320mm (WIDE end) , 1500mm (TELE)	
Sync. System	Internal / External	
S/N Ratio	More Than 50dB (AGC off)	
Total Pixel	410K	470K
Effective Pixel	768(H) x 494(V)	752(H) x 582(V)
Day & Night	Auto ICR (Filter Changeable)	
Minimum Focusing	Wide : 10mm Tele : 1,000mm	
Focus	Auto / Manual	
Day & Night	Auto (filter auto change) / Manual (Normal, Night light)	
Horizontal Rosolution	550TV Lines (Wide end.)	
Minimun Illumination	0.01Lux (ICR-on mode) 1/4sec0.01Lux (ICR-on mode) 1/3sec	
Video Output Signal	VBS : 1.0 Vp-p (Sync negative) Y/C out.	
Control Method	RS-485,422 Baud rate 2400bps (STD.)(Opt. : 38400, 4800, 9600)	
WDR(Wide Dynamic Range)	ON / OFF	
Electronic shutter speed	1/4 ~ 1/10,000sec (20 steps)	1/3 ~ 1/10,000sec(20 steps)
OSD		
WDR(Wide Dynamic Range)	ON / OFF	
Privacy Zone Masking	ON/ OFF (8 Programmable zones)	
Day & Night	ON / OFF / Auto	
IR Illuminator	ON / OFF / Auto	
Focus/Zoom	Focus, AF Sensitivity,Digital Zoom.	
White Balance	AUTO / Indoor / Outdoor / One Push / ATW/Manual	
Exposure	Mode, IRIS, Shut, Gain.	
Communication	Address, Baud rate	
Mirror	Horizontal mirror ON/OFF, ID	
Camera ID	1~255	
Environmental		
Operating Temperature	32°F ~ 158 °F (0°C~70 °C)	
Operating Humidity	Up to 90% RH (Non Condensing)	
Storage Temperature	-14 °F ~ 158 °F (-20 °C~70 °C)	
General		
Cerifications	CE, FCC, RoHS	
Power Supply	DC 12V	
Dimensions	233 x 164 x 322	
Weight	Approx. 4.5kg(with bracket)	
IR Illuminator		
IR LED (Built in)	High Power 850nm x 6 LEDs	
Working Distance	Up to 50M at moonless night	
Sub-IR Illuminator x 4ea	High Power 850nm 10 ø x 20 x 9, 8 ø x 40 ° x 5	
Working Distance	Up to 150M at moonless night with Sub IRx 4 sets in addition	

Dimensions

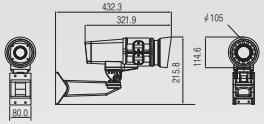
• KZC-IR374



• KZC-IR372



• KZC-IR370



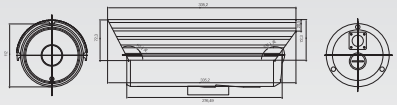
Function

- 1/4" SONY Progressive Scan CCD
- Built-In Optical Power Zoom Lens(Optical 35x, Digital 12x)
- Day & Night (IR Cut filter removable)
- Built in Giant IR LED(10 pcs) and CDS sensor
- IR visible range : 100m approx.
- On Screen Display Setup
- Privacy Zone masking
- Remote control through RS-485 Interface
- DSS , WDR , BLC Function

Specifications

Model.No	KZC-IR35	
	NTSC	PAL
Pick-up Device	Sony 1/4 inch Solid State Progressive Scan CCD	
Total/Effective Pixels	410,000 / 380.000	470,000 / 440,000
Scanning System	2 : 1 Interlace	
Lens	x35 Zoom, f=3.4~119mm, F1.4 (Wide)~F4.2 (Tele)	
Digital Zoom Ratio	x36~x420 can be adjustable (x2, x4, x6, x8, x10)	
Sync. System	Internal / External (VD pulse lock), Auto Detecting selectable	
H. Resolution	560 TV Lines (Color) / 620TVLine (B/W)	
S/N Ratio	More than 50 dB (AGC off)	
Min. Illumination	0 Lux (IR ON/OFF illumination adjustable)	
Focus Mode	Auto / Manual / One Shot	
Shutter Speed	(AUTO) 1/60~1/120,000	(AUTO) 1/60~1/130,000
DSS MODE	X2~ X20	
WDR Function	AUTO, 1~ 50	
Day & Night Mode	ON / OFF / AUTO (CDS Sensor ON/OFF)	
Privacy Zone	ON (up to 2 zone) / OFF	
AGC	0~ 30 DB	
White Balance	ATW / MANUAL	
BLC	OFF, 1 ~ 10	
EIS MODE	ON / OFF	
FAN	ON / OFF Temperature Adjustable	
HEATER	ON / OFF Temperature Adjustable	
RTC	REALTIME CLOCK FUNCTION	
IR DISTANCE	APPROX. 100m ± 10m (Giant LED)	
OSD	MENU OSD	
Remote Control	RS485 (start:1, stop:1, parity : none), 2400, 4800, 9600 Bps	
Power Supply/Consumption	DC12V : 4A ~ DC30V : 2A, AC12V : 3A ~ AC24V : 2A	
Operation/Storage Temperature	(+50~25°C) / (+60~30°C)	
Dimension / Weight	130mm × 130mm ×350mm	

Dimensions



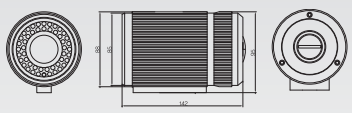
Function

- 1/4" SONY Supper HAD CCD
- 520TV Lines during daytime & 570TV Lines during at night with IR assist.
- Auto Focus X10 ZOOM
- Digital Noise Reduction (SSNR)
- Digital Low Shutter Speed (DSS) : X2~X128
- Built in IR LED (54 pcs) and CDS sensor
- IR visible range : 40m approx.
- RS485 COMMUNICATION (ID255 , PROTOCOL SELECTABLE)

Specifications

Model.No	KZC-IR10	
	NTSC	PAL
Pick-up Device	Sony 1/4 inch Super HAD CCD	
Total/Effective Pixels	410,000 / 380.000	470,000 / 440,000
Scanning System	2 : 1 Interlace	
Lens	x10 Zoom, f=3.8~38mm, (F1.8)	
Digital Zoom Ratio	x11~x100 can be adjustable (x2, x4, x6, x8, x10)	
Sync. System	Internal / External (VD pulse lock), Auto Detecting selectable	
H. Resolution	520 TV Lines (Color) / 570TVLine (B/W)	
S/N Ratio	More than 50 dB (AGC off)	
Min. Illumination	0 Lux (IR ON/OFF illumination adjustable)	
Focus Mode	Auto / Manual / One Shot	
Shutter Speed	(AUTO) 1/60~1/120,000	(AUTO) 1/50~1/120,000
Sens Up	X2~ X128	
SSNR Function	OFF / LOW / MIDDLE / HIGH	
Day & Night Mode	ON / OFF / AUTO (CDS Sensor ON/OFF)	
Privacy Zone	ON (up to 4 zone) / OFF	
AGC	OFF / LOW / MIDDLE / HIGH	
White Balance	ATW(Indoor, Outdoor) / AWC / MWB	
BLC	OFF / LOW / MIDDLE / HIGH	
Lens Preset	8 Point (Set / Call)	
FAN	ON/OFF Temperature Adjustable	
HEATER	ON/OFF Temperature Adjustable	
RTC	REALTIME CLOCK FUNCTION	
IR DISTANCE	APPROX. 100m ± 5m (5 ø LED)	
OSD	MENU OSD	
Remote Control	RS485 (start:1, stop:1, parity : none), 2400,4800,9600 Bps	
Power Supply/Consumption	DC12V : 1.5A ~ DC30V : 1A, AC12V : 1.2A ~ AC24V : 1A	
Operation/Storage Temperature	(+50~25°C) / (+60~30°C)	
Dimension / Weight	102mm × 102mm × 200mm	

Dimensions



Zoom Camera

Day & Night Zoom Camera

22X Zoom Camera (220X)

KZC-221

27X / 33X / 37X Zoom Camera

KZC-27 / 33 / 37

Function

- 1/4" Sony CCD color camera
- 220X Zoom (Optical 26X, Digital 10X)
- Canon lens
- Minimum intensity of illumination 0.05 Lux (In case scanning slowly)
- Correcting the backlight, silhouette and shiver
- Presetting automatic watch on 64 areas
- Detecting motions and connecting to exterior sensors
- Auto focus function
- BLC, AWB, AGC, Reverse(H/V) & Negative functions
- Communication 1:1, 1:N (Remote controls up to 255 cameras) through PC program
- 1.2m wired remote controller (Option)
- KZC-220 (22X Zoom Camera Module) available

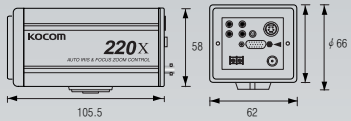
Specifications

Model.No	KZC-221	
TV System	NTSC	PAL
Image Device	1/4 " SONY CCD	
Total Pixels	410,000 (H811xV508)	470,000 (H795xV596)
Effective Pixels	380,000 (H768xV494)	430,000 (H752xV582)
Horizontal Frequency	15.734 KHz	15.625 KHz
Vertical Frequency	59.94 Hz	50.00 Hz
Total Zoom	220X (Optical 22X CANON lens, Digital 10X)	
Focal Length	F1.6~ F3.8, f = 4mm ~ 88mm	
View Angle	Wide : H47.31° V36.32°, Tele : H2.16° V1.42°	
Minimum Focusing	Wide : 10mm Tele : 1,000mm	
Focus	Auto / Manual	
Day & Night	Auto (filter auto change) / Manual (Normal, Night light)	
Screen Mask	Hide wanted area on the screen (Two area)	
Freeze Function	Select by OSD	
Position	64 Presets (Zoom, Focus)	
Motion Detection	ON (ALARM : TTL OUT) / OFF	
Reverse Function	H Reverse, V Reverse ON / OFF	
Negative Function	ON / OFF	
Phase Control	MIN / MAX	
Enhance Function	MIN / MAX (H-Gain, V-Gain)	
Scanning System	1 : 2 Interlace	
Synchronizing System	Internal & External (AC Line Lock) Mode	
Horizontal Resolution	470 TV Lines	
Video Signal Output	VBS : 1.0Vp-p	
Y/ C Output	Y : 1.0Vp-p, C : 0.3Vp-p	
S / N	48dB High	
Shutter Speed	Auto, 1/60 ~ 1/10000	
Sensitivity	1 Lux (F1.6, 30 IRE)	
Slow Scan	0.05 Lux (Color)	
Day & Night	0.001 Lux (B/W)	
AGC / ALC / AES	Auto / Fix	
BLC	On / Off	
White Balance	Auto (ATW or AWB) / Fix	
External Control	RS-232C Remote Control (Optional)	
OSD Control	Zoom, Focus, Iris, WB, AGC Gain, Position, C Gain Motion Detection, Reverse	
OSD Language	English	
Operating Temperature	-10°C ~ +60°C	
Power Source	DC12V ± 1V	
Power Consumption	3.6W (Max)	
Weight	350g (Module)	

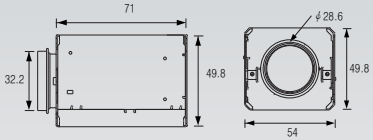
Picture View

Dimensions

• KZC-221



• KZC-220(Module)



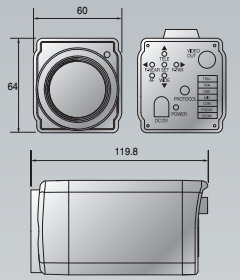
Function

- 1/4" Sony super HAD CCD
- 410K Pixel Zoom Camera
- Optical Zoom x27, x33, x37 & Digital Zoom x12
- Min. illumination 0.00005 LUX (Sens-up mode)
- DNR(Digital Noise Reduction)
- Day & Night (ICR)
- 8 Privacy Zone masking, Motion Detection
- IR Remote (Option)

Specification

Model.No	KZC-27 / 33 / 37	
Signal system	NTSC	PAL
Pick-up Device	1/4" Sony super HAD CCD	
Total Pixels	811(H) X 508 (V)	795 (H) X 596 (V)
Effective Pixels	768 (H) X 494(V)	752 (H) X 582 (V)
Resolution	Color : 520TV Lines(Min), B/W : 570TV Lines(Min)	
Scanning Frequency	15.734KHz (H), 60 (V)	15.625KHz (H), 50 (V)
Scanning System	2 : 1 Interlace	2 : 1 Interlace
	525 Lines / 60Fields / 30Frames	625 Lines / 50Fields / 25Frames
Shutter Speed	1/60~1/120,000 sec	1/50~1/120,000 sec
Min. Illumination	0.7Lux @F1.6 (Normal Color Mode) 0.1Lux @F1.6 (B/W Mode) 0.0007Lux @F1.6 (Sens-up Mode)	
Zoom Rate	27X, f3.84~88.4mm (F1.6~3.0) / 33X, f3.3~99mm (F1.6~3.4) / 37X, f3.5~129.5mm (F1.6~3.9)	
Min. Focus Distance	1m	
Angle Field of view	H : 52.2°(Wide)~2.36°(Tele), V : 40.25°(Wide)~1.78°(Tele)	
Back Light	Low / Middle / High / Off	
Day & Night	AUTO / COLOR / B/W	
Privacy Zone	On / Off (32 Zones, 8 Group/4 Programmable Zone per Screen)	
AGC	Low / Middle / High / Off	
Camera ID	On (255 ID Selectable) / Off	
White Balance	ATW / Outdoor / AWC / Manual	
SSNR	LOW / MIDDLE / HIGH / OFF	
OSD	Built-in	
Flip / Mirror	On / Off	
Communication	RS 485, Multi Protocol (Pelco, D-max)	
S/N Ratio	More than 50dB	
Video Output	Composite video output 75 ohm terminated	
Sync. System	Internal	
Operating Humidity	30 % ~ 90 % RH	
Operating Temp	- 10°C to 50°C	
Dimension	60 (W) X 64 (H) X 119.8 (D)mm	
Weight	About 378g	
Power Consumption	Max 5W	
Power Supply	DC 12V (±10%) 500mmA	

Dimensions



MAIN SETUP MENU				
CAM TITLE	. OFF	. ON		
WHITE BALANC	. ATW	. AWC →SET	. MANUAL	
BACKLIGHT	. OFF	. LOW	. MIDDLE	. HIGH
MOTION DET	. OFF	. ON		
FOCUS	. MODE	. ZOOM TRK	. ZOOM SPEED	. D-ZOOM
	. DISP ZOOM MAG	. ZOOM POS INIT	. LENS INIT	. END
EXPOSURE	. BRIGHTNESS	. IRIS	. SHUTTER	. AGC
	. SSNR	. SENS-UP	. END	
SPECIAL	. USER PRESET	. PRIVACY	. DAY&NIGHT	. SYNC
	. COMM ADJ	. IMAGE ADJ	. END	
RESET				
EXIT				

IR Camera

IR Day & Night Camera

Varifocal (5~50mm) IR Day & Night Camera

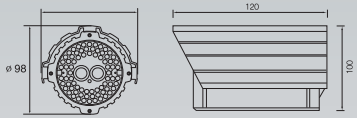
KCC-IRV550

Function

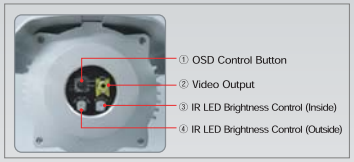
- 1/3" Super HAD IT CCD (SONY)
- High Sensitivity
- 540TVL(410K Pixels)
- OSD (On Screen Display) Menu
- Blemish Compensation 32 points
- Mirror, BLC, AGC, Private mask and etc,
- DC auto iris lens (5~50mm)
- Water Proof

Picture View

Dimensions



Back Panel Control



Specifications

Model	KCC-IRV550	
Signal System	NTSC	PAL
Total Pixels	410K / 380K	470K / 440K
Image Pick-up Device	1/3" Super HAD IT CCD (SONY)	
Lens	Varifocal DC Auto Iris lens (f : 5~50mm)	
Signal Process	Digital Signal Process	
Scanning System	2 : 1 Interlace	
Sync. System	Internal	
Scanning Frequency	59.94Hz(VD)	50Hz(VD)
Resolution	540 TV Lines (Color), 600 TV Lines (B/W)	
S/N Ratio	More than 50dB (AGC Off)	
Min. Illumination	0.5 Lux F1.2 (Color), 0.0005 Lux F0.75 at Night mode B/W)	
Ragne of Visibility	IR LED : ø10 : 20units, ø5 : 30 units (Max. 70m)	
Gamma	r=0.45	
White Balance	Auto	
Video Output	1.0 Vp-p Composite (75 Ω)	
Shutter Speed	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
Power Source	DC 12V	
Operating Temp.	-10°C~ 50°C (Humidity : 0% RH ~80%RH)	
Dimension (mm)	98(ø) x 100(H) x 210(W) (mm)	
Weight	Approx. 1300 g	

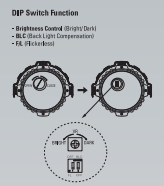
KCC-IRV99 KCC-IRD99 / IRD99 RP

True Day & Night IR LED Camera

KCC-IRV99 / IRD99 / IRD99 RP

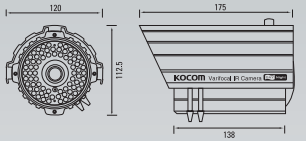
Function

- 1/3" Sony Super HAD CCD (KCC-IRV99)
- Dual 1/3" Sony Super HAD CCD (KCC-IRD99 / IRD99 RP)
- 540TV Lines of Horizontal During Daytime & 600TV Lines at night with IR assist
- CDS Auto Switching Infrared LED
- 75 Infrared LED (Visibility range 40m)
- Day & Night Varifocal Lens (f:4 ~ 9mm @ F1.6)
- Flickerless On / Off Selection
- BLC On / Off Selection
- Brightness Control
- DC fan Included
- Water Proof
- Car registration number plate recoguition camera (KCC-IRD99 RP)



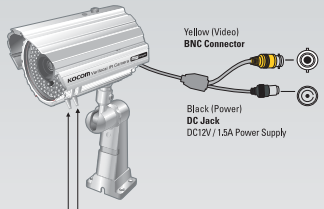
Picture View

Dimensions



Specifications

Model no.	KCC-IRV99	
Image Sensor device	1/3" Sony Super HAD CCD	
TV system	NTSC (60Hz)	PAL (50Hz)
Total pixels	811(H) x 508(V)	795(H) x 596(V)
Effective pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning frequency	15.734KHz(H), 59.94Hz(V)	15.625KHz(H), 50Hz(V)
Scanning system	2:1 Interlace	
S/N ratio	More than 48dB (AGC Off)	
Horizontal resolution	540TV Lines (Color), 600TV Lines (B/W)	
Shutter speed	1/60 ~ 1/100,000sec	1/50~1/100,000sec
Minimum illumination	More than 1.0 Lux@F1.2 (Color), 0.005 Lux@F0.75 (B/W)	
Sync system	Internal	
Video output	VBS 1.0V p-p Composite (75Ω)	
Visibility range	75 Unit infrared LED (850nm) : 35m	
Lens	f:4~9mm@F1.6 Vaifocal Iris Lens	
White balance	Automatic white balance	
Video output jack	BNC connector	
Power input jack	Ø5.5 Jack	
Power consumption	DC12V±2V (Max. 2.9W, 13W with IR LED)	
Operating temperature	-10℃~50℃	
Humidity	Within 90% RH	
Weight (Approx.)	1.7kg	


Yellow (Video)
BNC Connector
Black (Power)
DC Jack
DC12V / 1.5A Power Supply
Focal Length Adjustment Lever
Adjusting by lever, focal length can be changeable. (f : 4.0~9.0mm)
Zoom Adjutment Lever
Tele : To zoom in, rotate the Zoom Adjustment lever clockwise
Wide : To zoom out, rotate the Zoom Adjustment lever counter clockwise

True Day & Night IR LED Camera

KCC-IR75

Function

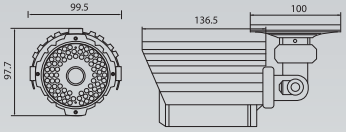
- 1/3" Sony Super HAD CCD
- High Resolution 560TVL
- CDS Auto Switching Day to Night Mode
- Zero Lux Minimum Illumination under IR switched on (IR LED 65EA / 30m View)
- Water proof

Picture View

Specifications

Model no.		KCC-IR75	
Image Sensor device		1/3" SONY SUPER HAD IT CCD	
Signal System		NTSC	PAL
Total pixels		811(H) x 508(V)	795(H) x 596(V)
Effective pixels		768(H) x 494(V)	752(H) x 582(V)
Scanning system		2 : 1 Interlace 525 Lines	2 : 1 Interlace 625 Lines
Scanning Frequency		15.734KHz(H) / 60Hz(V)	15.625KHz(H) / 50Hz(V)
Sync. Mode		Internal	
Resolution		560TV-Lines	
Video Output		VBS 1.0Vp-p Composite / 75Ω	
S/N Ratio		More than 50dB (AGC OFF)	
Min.illumination		Under 0.000Lux for infrared lighting condition	
Range of Visibility		65 Units infrared LED : 30m	
Gamma		r=0.45	
White Balance		Auto	
Lens		f=6mm / F1.8	
Shutter Speed		1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
Operation Tem		14℉ ~ 122℉ (-10℃ ~ 50℃)	
Power	IR-88HK	DC12V ±10%, 9.6watts	
	IR-88N	DC12V ±10%, 7.8watts	
Dimension(mm)		ø99.5 x 136.5mm	
Weight		approx.1047g	

Dimensions



Day & Night IR Water Proof (IP68) Camera

KCC-IR49H / 49N / IR10 / IR10S

Function

Electronical Features
- IIRP - Intelligent IR Protection technology built-in
- SFOCAS - Self Focus Compensation Against focus shift techolonogy built-in
- Instant image conversion from Color to B/W at 2 Lux (True D/N)
- Extremely accurate color reproduction with 10 bit data process
- Surge voltage input protection built-in
- CDS Control for IR ON/OFF

Mechanical Features
- No focus distortion at night
- No color rolling
- Water proof (IP68)
- Easy-to-install mechanism
- Compact and beautiful design

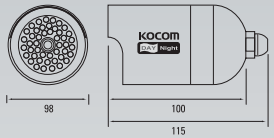
Optional Features
- High sensitive external Audio with C- Microphone " - 35dB / mV "
- 850nm Semi-visible IR- Standard

Specifications

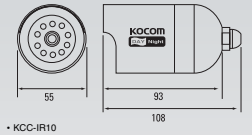
Model no.		KCC-IR49H	KCC-IR49N	KCC-IR10 / KCC-IR10S
Image Sensor device		1/3" Sony Super HAD CCD		
Total pixels	NTSC	811(H) x 508(V)	537(H) x 505(V)	
	PAL	795(H) x 596(V)	537(H) x 597(V)	
Effective pixels	NTSC	768(H) x 494(V)	510(H) x 492(V)	
	PAL	752(H) x 582(V)	500(H) x 582(V)	
Scanning frequency	NTSC	15.734KHz(H), 59.94Hz(V)		
	PAL	15.625KHz(H), 50Hz(V)		
Scanning system		2:1 Interlace		
S/N ratio		More than 48dB (AGC off)		
Horizontal resolution		540TV Lines	380TV Lines	
Shutter speed	NTSC	1/60 ~ 1/100,000sec		
	PAL	1/50~1/100,000sec		
Minimum illumination	Color	More than 1.0Lux@F1.2		
	B/W	0.000Lux (LED On)		
Sync. system		Internal		
Video output		VBS 1.0V p-p Composite (75Ω)		
Gamma		r=0.45		
Visibility range		50 Unit infrared LEDs (850nm) : 20m		10 IR LEDs : 10m
Lens		Sandard f:6mm@F2.0 (Option : 4mm, 12mm)		
White balance		Automatic white balance		
Power consumption		DC12V±2V		DC12V±2V
		(Max. 2.3W, 7W with IR LED)		(Max. 1.4W, 2W with IR LED)
Operating temperature		-10℃~50℃		
Humidity		Within 90% RH		
Output terminal		BNC connector, DC jack		
Weight (Approx.)		0.5kg		0.3kg

Picture View

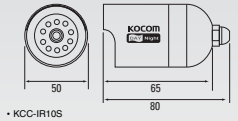
Dimensions



• KCC-IR49H / IR49N



• KCC-IR10



• KCC-IR10S

Function

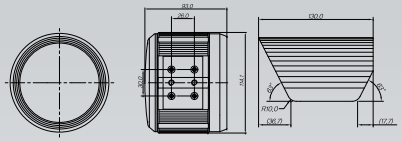
- 1/3" Sony Super HAD CCD (HQ1)
- High resolution 540TV Lines(Min.)
- CDS Auto switching infrared LED (120 IR LEDs / Viewable 90M)
- Fixed 6.0mm lens
- Natural Color Lens

Picture View

Specifications

Model no.	**KCC-IR120**
TV System	NTSC, PAL
Image Sensor	1/3" SONY Super HAD CCD (HQ1)
CCD Total Pixel	410K
Sync System	Internal
Min. illumination	0.1 Lux 5600 K F2.0 / 0.000 Lux (IR LED ON)
LENS & View Angle	6.0mm fixed lens
Resolution	540 TV Lines
S/N Ratio	50dB Min. (AGC OFF)
White balance	ATW
White balance Range	AWB, ATW (3200~10000K)
Electronic Shutter	NTSC : 1/60~1/100,000sec., PAL : 1/50~1/100,000sec.
Video Output	1.0Vp-p composite video at 75 ohm
IR LED	120 unit Infrared LED 6,000hrs 850nm
Gamma Correction	r = 0.45
Beam Spread	70˚C
Distance	(Indoor 90m / Outdoor 70m)
Gain Control	AGC
Operation Temperature	-20˚C ~ 50˚C
Water Resistance	IP55 / NEMA4
Operational humidity	Within 90% RH
Dimensions	110mm(W) ×110mm(H) × 90mm(L)
Power Supply	DC12V / 1500mA (Max) 180mA (Camera) 1320mA (LED)

Dimensions



Function

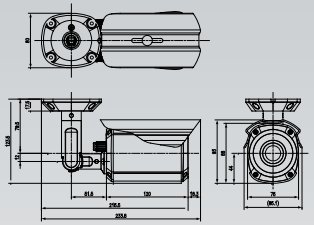
- Hi Resolution
  - 620TV Lines
- Varifocal lens 2.8~12mm
- WDR Function
- Advanced 3D Filtering DNR
  (Digital Noise Reduction)
  - Saving up to 70% DVR Storage
- True Day & Night Function
- OSD Dip Switch
- Weather proof (IP68)
- DIS (Digital Image Stabilizer)
  - Stabilises Images by reducing flickering
- HLC (High Light Compensation)
  - Distinct Recognition of a license plate
- Sense-Up (x256)
- 6 Points Privacy Masking areas
- Second Video Ouput
- ICON OSD [On screen Display]Control

Picture View

Specifications

DETAILS	NTSC	PAL
Image Sensor	1/3" Sony Super CCD	
TV	NTSC	PAL
Valid Pixel	811[H] X 508[V]	795[H] X 596[V]
Shutter Speed	1/60~1/120,000	1/50s~1/100,000s
Scanning System	2:1 Interlace	
Resolution	620TV Lines	
Video Output	1Vp p 75 Negative	
S/N Ratio	More Than 52dB (AGC Off)	
Min. Illumination	0.1Lux [F1.2, 30IRE], (at TDN_BW)	
Gamma	r=0.45	
OSD	Built-in	
White Balance	Auto / Color / BW / C_SUP / A-SUP	
BLC	BLC / HLC / OFF	
SENSE-UP	Auto / Fixed / Off [Selectable x2~x256]	
DNR	OFF / ON (1~32 Level Adjustable)	
Auto Gain Control	High / Middle / Low / Off Selectable	
Wide Dynamic Range	52db (x128)	
Privacy Masking	ON / OFF (6 Areas)	
MIRROR	On / Off [H-Rev, V-Rev]	
FREEZE	ON/ OFF	
DIS	ON / OFF	
DIGITAL ZOOM	ON (X10) / OFF	
SHARPNESS	Level Adjustable	
Lens	[2.8~12mm] Varifocal Lens	
Day&Night	Color / BW / Auto Selectable	
Blemish Compensation	256 Points (Even128, Odd128)	
Storage Temp/Humidity	-20˚C~ +60˚C / 20%~90%	
IR LED	Wave 850nm / 40EA	
Dimension / Weight	85.1(W) x 123.5(H) x 233.8(D) mm / 1kg	
Power Consumption	DC12V / Dual Power	

Dimensions



IR Camera

IR Day & Night Camera

Long Distance View Day & Night IR LED Camera

KCC-3000

KCC-3000 24L
- KOCOM
- Camera
- Color
- Model No
- DC12V & AC 24V (Dual power & Line Lock)

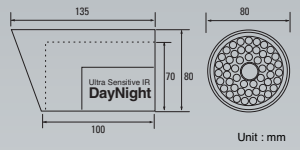
Function

Electronical Features
- IIRP - Intelligent IR Protection technology built-in
- SFOCAS - Self Focus Compensation Against focus shift techolonogy built-in
- Instant image conversion from Color to B/W at 2 Lux (True D/N)
- Long distance view up to 50M at total darkness - Ex-view HAD 40M at total darkness - Super HAD
- Extremely accurate color reproduction with 10 bit data process
- Higher resolution of 400TVL - STD Super HAD version
- Higher resolution of 500TVL - Hi-res Super HAD version
- 12VDC/24VAC Line lock Dual power with Non-polarity input
- Surge voltage input protection built-in
- Reverse polarity power input protection built-in
- Built-in DIP SW functions (ALC/ESC, BLC, INT/L.L, AGC, FL)
- CDS Control for IR On/Off

Mechanical Features
- No focus distortion at night
- No color rolling
- Weatherproof (IP67)
- Easy-to-install mechanism
- Compact and beautiful design
- Easy access to Dip SW for function adjustment

Optional Features
- High sensitive external Audio with C-Microphone " - 35dB / mV "
- 850nm Semi-visible IR- Standard (940nm Invisible IR - Option)

Dimensions



Unit : mm

Specifications

		COLOR					B/W	
Model no.		KCC-2000S	KCC-3000P	KCC-2000	KCC-3000	KCC-3000X	KCB-2000S	KCB-3000S
Image format		1/3" CCD, Sharp	1/3" CCD, Panasonic	1/3" Sony Super HAD	1/3"Sony Super HAD	1/3" Sony Ex-view HAD	1/3" CCD, Sharp	1/3" CCD, Sharp
Effective pixels	NTSC (EIA)	512(H) x 492(V)	768(H) x 494(V)	512(H) x 492(V)	768(H) x 494(V)	768(H) x 494(V)	512(H) x 492(V)	768(H) x 494(V)
	PAL (CCIR)	500(H) x 582(V)	752(H) x 582(V)	500(H) x 582(V)	752(H) x 582(V)	752(H) x 582(V)	500(H) x 582(V)	752(H) x 582(V)
H-Resolution		380 TV Lines STD-resolution	480 TV Lines High-resolution	400TV Lines STD-resolution	500TV Lines High-resolution	500TV Lines High-resolution	400TV Lines STD-resolution	600TV Lines High-resolution
Sync. system	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
	Line Lock	X	X	Internal / Line Lock(L)			X	X
Visible distance at "0" lux dark (IR on)		35m	40m	40m	40m	50m	40m	38m
LED spectrum		850nm (20 °) visible x 49 IR LEDs						
Scanning system		NTSC : 525 Lines, PAL : 625 Lines, 2:1 Interlaced						
Video output		1.0Vp-p composite. 75 Ohms						
S/N ratio		More than 50dB (AGC off)						
Shutter speed		NTSC : 1/60 ~ 1/100,000 sec, PAL : 1/50 ~ 1/100,000 sec						
Gamma correction		r= 0.45						
White balance		2100°K ~ 9100°K Auto						
Gain control		4dB ~ 30dB Auto						
Smear effect		0.005%						
MTBF		20,000 hours						
Power sources	DC12V version	DC12V (regulated) / 660mA		DC12V (regulated) / 690mA			DC12V (regulated) / 660mA	
	DC12V / AC24V	X		DC12V (regulated) / 630mA, Non-polarity			X	
	Dual power version	X		AC24V (regulated) / 500mA, Non-polarity			X	
Lens	Standard	f = 4.3mm (78°)						
	Exchangeable	3.6mm, 6.0mm (54°), 8.0mm (39°), 12mm, 16mm						
Operating temperature		14°F~ 122°F (-10°C ~ +50°C)						
Humidity		Within 90% RH						
Output terminal		1 foot (30cm) waterproof 4 Pin DIN-male + 1foot 4Pin DIN-female short cable (total 2ft long cable set)						
Measuremet (mm)		70ØX 95(L) (mm) w/o hood						
Weight (Approx.)		1.2kg					1.1kg	
Dip S/W function	ESC / ALC BLC on / off Flickerless on / off Internal / Line Lock AWB / MWB AGC Nor / Max Gammar 0.45 / 1.0	For 12/24 L/L Dual power version only					-	
Optional feature	True Day & Night Dual filter mechanism	Yes (for Sony Super HAD & EX-view HAD built in mode only)						
	External Audio	O						

WDR Long distance View Day & Night IR LED Varifocal Sense up Camera

KCC-IRV2811 / 0650

Function

- 1/3" Sony Super HAD CCD. 600TV Lines(Min)
- Automatically discerns D&N settings and electronically switching
- IR LED Viewable Distance : KCC-IRV2811 - 50M
  KCC-IRV0650 - 70M
- OSD Manu
  - BLC and Available to control BLC Zone
  - Day & Night Funtion, Motion Detection, Privacy Masking Zone
  - Camera ID, Various Image Control
  - Digital WDR, 2DNR
  - HLC (High Light Control in any saturated area)
- 2nd Video Output and OSD control (Rear cover opening Type)
- Compact size 90pie.
- Weatherproof (IP66)

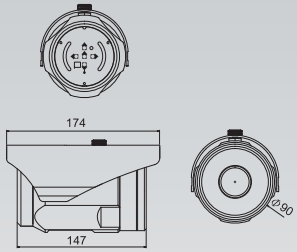
Picture View

Specification

Model. No	KCC-IRV2811 / 0650
Signal system	NTSC / PAL
Image Sensor	1/3" Sony Super HAD CCD Sensor
Scanning System	525 Lines 2 : 1 Interlace / 625 Lines 2 : 1 Interlace
Resolution	Color 600TVL / B/W 700TVL
Scanning Frequency	15.734KHz (H), 59.94Hz (V) / 15.625KHz (H), 50Hz (V)
Shutter Speed	1/60 ~ 1/100,000 sec / 1/50 ~ 1/100,000 sec
S/N Ratio	More than 48dB (AGC Off)
Min. Illumination	0.00 Lux with IR-LED (76ea)
OSD Functions	D-WDR, 2DNR, HLC, BLC, DPC, Privacy Masking
Video Output	Composite 1.0 Vp-p (75ohm Load)
Lens	Varifocal : KCC-IRV2811 - 2.8~11 / KCC-IRV0650 - 6~50mm, DC Iris (Option)
Power Supply	DC8 ~ 14V
Power Consumption	150mA (DC12V) / 500mA(DC12V) at IR LED On
Operating Temp	-10°C ~ +50°C
Operating Humidity	90% RH max.
Dimension	90pie

SET UP Menu				
LENS	• MANUAL	• DC		
EXPOSURE	• SHUTTER	• BRIGHTNESS	• AGC	• D-WDR
WHITE BALANCE	• ATW1	• ATW2	• PUSH	• MANUAL
BACK LIGHT	• OFF	• BLC	• HLC	
DAY/NIGHT	• AUTO	• COLOR	• B/W	• EXT
DPC	• ENTER			
SPECIAL	• CAM-ID	• MOTION DET	• RIVACY	• PARKING LINE
	• IMAGE CTRL	• COMMON ADJ	• LANGUAGE	• RETURN
EXIT				

Dimensions



IR Camera

IR Day & Night Camera

Varifocal(4~9 mm) IR Day & Night Camera

KCC-IRV24

Function

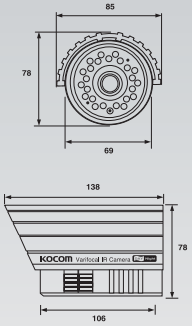
- 1/3 inch SONY SUPER HAD IICCD
- 24 infrared LED (Visibility Range 20m)
- Built in Varifocal Lens (f : 4~9mm @ F=1.6)
- CDS Auto switching infrared LED.
- High Resolution 600TV Lines
- Manual Varifocal Lens
- 0 Lux for Infrared Lighting Conditions
- Weatherproof Housing (IP67)
- Easy Adjustment Zoom & Focus
- Cable Hidden Bracket

Picture View

Specifications

Model no.		KCC-IRV24	
Total Pixels		811(H) x 508(V)	795(H) x 596(V)
Effective Pixels		768(H) x 494(V)	752(H) x 582(V)
Sensor		1/3" Sony Super HAD II CCD	
Scanning System		2:1 Interlace	
Frequency		Horizontal : 15.734KHz	Horizontal : 15.625KHz
ELECTRICAL	Resolution	More than 600 TV Lines	
	Video Output	1.0Vp-p Composite Signal (75ohm)	
	S/N (Y signal)	52dB or more (AGC OFF)	
	Min.Illumination	0 Lux for Infrared Lighting Conditions	
	AGC	OFF / LOW / MIDDLE / HIGH	
	White Balance	ATW1 (2300°K~9500°K)/ATW2(2000°K~11000°K)/MANUAL	
	Electronic shutter speed	1/60s - 1/100,000s	1/50s - 1/100,000s
	Back light (BLC)	OFF / BLC / HLC Selectable	
	2D-DNR	ON / OFF Selectable	
	D&N Selection	AUTO / COLOR / BW / EXT	
	D-WDR	ON / OFF Selectable (Level Adjustable 0~35)	
	Dead Pixel (DPC)	OFF / Auto (Max 64points)	
	IR SMART	ON / OFF Selectable (IR GAIN Level Adjustable 0~ 255)	
	Motion Detection	OFF / ON (4Areas Selectable)	
	Privacy Masking	OFF / ON (8Masks Selectable)	
	Lens Shading (LSC)	ON / OFF Selectable (Level Adjustable 0~255)	
	SHARPNESS	ON / OFF (Level Adjustable 0~30)	
IR Range		24IR	
Lens Mount		4~9mm Varifocal Lens	
Operating temperature/Humidity		-10°C~+50 °C / 0~80% RH	
Power Supply		DC12V 110mA (CDS ON 350mA)	
Dimensions		69(W) x 69(W) x 105(D)mm	
Weight		Appx. 850g	

Dimensions



True Day & Night IR LED Camera

KCC-IR24H / 24N

Function

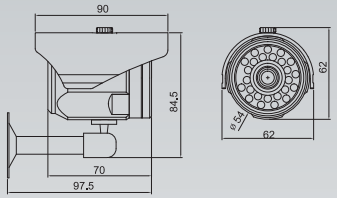
- 1/3" Sony Super HAD CCD.
- High Resolution KCC-IR24N- 450TVL / KCC-IR24H - 550TVL
- Automatically discerns D&N settings and electronically switching
- CDS Auto switching infrared LED (24 IR LEDs / Viewable 20M)
- Compact Case : 50 pie

Picture View

Specifications

Model no.	KCC-IR24N		KCC-IR24H	
Signal System	NTSC / PAL			
Image Sensor	1/3" Sony Super HAD CCD Sensor			
Scanning system	525 Lines 2 : 1 Interlace / 625 Lines 2 : 1 Interlace			
Resolution	Color	B/W	Color	B/W
	450 TVL	480 TVL	550 TVL	580 TVL
Scanning Frequency	15.734KHz (H), 59.94Hz (V) / 15.625KHz (H), 50Hz (V)			
Shutter Speed	1/60 ~ 1/100,000 sec / 1/50 ~ 1/100,000 sec			
S/N Ratio	More than 48dB (AGC Off)			
Min. Illumination	0.00 Lux with IR-LED (24pcs)			
Option	BLC, Mirror			
Video Output	VBS 1.0 Vp-p (75ohm Load)			
AGC	Built-in			
Lens	Fixed 3.7 MM			
Power Supply	DC12V ± 10%			
Power Consumption	120mA (DC12V) / 300mA (DC12V) at IR LED On			
Operating Temp	-10°C ~ +50°C			
Operating Humidity	90% RH max.			
Dimension	50Pie X 90MM			

Dimensions



C & CS Mount Camera

Day & Night C & CS Mount Camera

WDR Day & Night Sense up Camera

KCC-S650 / S650W

Specifications

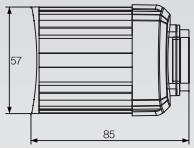
Model no.	**KCC-S650**			
Signal System	NTSC		PAL	
CCD Device	SONY 1/3" CCD			
Total Pixel	811 x 508		795 x 596	
Effective Pixel	768 x 494		752 x 582	
Inter. H/V Sync	15,734/59.94Hz		15,625/50Hz	
LL H/V Sync	15,750/60Hz		15,625/50Hz	
Horizontal Resolution	More than 560 (Color) / 600 (BW)TV Lines			
Minimum illumination(F1.2)	Color mode	50 IRE	25 IRE	15 IRE
	Sens Off	0.4 Lux	0.2 Lux	0.12 Lux
	Sens x256	0.001 Lux	0.0007 Lux	0.0004 Lux
	BW mode	50 IRE	25 IRE	15 IRE
	Sens Off	0.04 Lux	0.02 Lux	0.012 Lux
	Sens x256	0.0001 Lux	0.00007 Lux	0.00004 Lux
S/N Ratio	52dB			
OSD	E / F / S / J / P, (E/K)		E / F / G / S / I, (Chinese)	
Privacy Zone	8ea (Polygonal Method,4points)			
Day & Night	Out put the Filter changing signal			
Motion Detection	Off / On (Advanced)			
D-Zoom	x1 ~ x10 (x0.1STEP)			
High Speed Shutter	1/60 (1/50) ~ 1/10Ksec			
Flicker less	Off / On			
Sens Up (Low Shutter)	x2 ~ x256			
BLC	Off / On (Area Setting)			
AGC	Off / On (Max. Level Setting)			
ALC(Auto Level Control)	AI Lens (DC/VIDEO)			
ELC(Electronic Level Control)	Off / On (~ 1/200Ksec)			
Line Lock	Off / On (Phase Control)			
Camera ID	Off / On (Max.54ea/2Line)			
White Balance	ATW1/ ATW2 / AWC / MANUAL (ATW1:2500~9300°K, ATW2:2000~10000°K)			
DNR	Off/On (Adaptive 3D+2D)			
DIS	Off/On			
Etc. Function	Detail, Reverse(H/V), Posi/Nega, PIP			
Alarm Output	1ea (Open Collector)			
Remote Control	UART (Txd/RXd,3Vp-p)CCVC (withSCX-RD100)			
Video Output	VBS1.0Vp-p(75ohmTerminated)			
Power Input	DC+12V ±10% (Option : Dual power DC12V/AC24V)			
Power Consumption	Lessthan2.4Watts			
Operating Temperature	Absolute : -10℃~+50℃			
Operating Humidity	Less than 90%			
Dimension	57mm x 55mm x 85mm			

Picture View

Function

- 1/3" SONY 410K/470K Pixels Super-HAD CCD
- High Resolution: 600TV Lines
- Wide Dynamic Range function (KCC-S650W)
- Min. Illumination 0.0004Lux(F1.2, 15IRE, Sens-Up 256X)
- Internal / Linelock(Phase Control) Function
- ALC(Video/DC/ELC)
- Day Night Function(Soft), Sens-Up Function(256X)
- Motion Adaptive Digital Noise Reduction(3D+2D)
- Back Light Compensation(Area Setting)
- Advanced Motion Detection Function
- Privacy Mask Function(Polygonal Mosaic)
- High Shutter Speed Control by External Trigger
- DIS(Digital Image Stabilization)
- Multi-Language OSD support

Dimensions



WDR Day & Night Sense up Camera

KCC-D61

Function

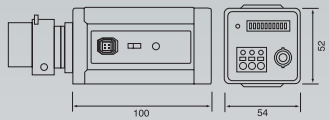
- 1/3" Double Speed (WDR) CCD (SONY)
- High Sensitivity, 550TVL (410K Pixels)
- Electronic Day & Night
- OSD (On Screen Display) Menu
- Motion Detection, Sharpness, Mirror, Super Wide
- Dynamic BLC, Digital Zoom, Digital Slow Shutter,
- Image Still & Rotate, RS485 setup, Privacy, Camera ID
- Video / DC drive auto iris lens
- Optional : Dual voltage (DC12V & AC24V), AC230V

Specifications

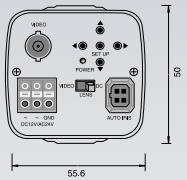
Model	**KCC-D61**	
Signal System	NTSC	PAL
Total Pixels	410K / 380K	470K / 440K
Image Pick-up Device	1/3" Double Speed (WDR) CCD (SONY)	
Lens Mount	Changeable mount C or CS mount type lens	
Signal Process	Digital Signal Process	
Scanning System	2 : 1 Interlace	
Sync. System	Internal	
Scanning Frequency	59.94Hz(VD)	50Hz(VD)
Resolution	550 TV Lines (Color), 580 TV Lines (B/W)	
S/N Ratio	More than 48dB (AGC Off)	
Min. Illumination	0.2 Lux F2.0 (0.001 Lux at Night mode)	
Video Output	1.0 Vp-p Composite (75Ω)	
Auto Iris	Video / DC Iris / ESC selectable	
Other Functions	D&N, Super Wide BLC, FLC, AGC, ATW & etc	
Shutter Speed	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
Power Source	DC 12V, (DC12V ~ AC24V, AC230V) Optional	
Operating Temp.	-10°C ~ 50°C (Humidity : 0%RH~ 80%RH)	
Dimension (mm)	55(W) x 56(H) x 96(D) (mm)	
Weight	Approx. 300g	

Picture View

Dimensions



▶ Back Panel



C & CS Mount Camera

Day & Night C & CS Mount Camera

WDR Day & Night Sense up Camera

KCC-D51

Function

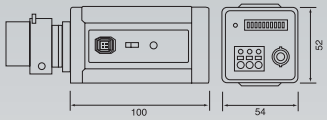
- 1/3" Sony Super HAD CCD
- High Resolution 570 TV Lines
- SDNR (Super Digital Noise Resolution)
- Electronic Day & Night Function
- Electronic IRIS Function
- Privacy Function
- Motion Detection Function
- OSD menu (On Screen Display Menu)
- Video / DC Drive Lens
- Additional Function provides such as Camera ID, Sharpness, Mirror, Line Lock and Reset.
- Optional : Dual voltage (DC12V & AC24V), AC230V

Specifications

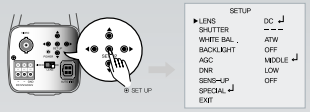
Model no.	**KCC-D51**	
Signal System	NTSC	PAL
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Image Pick-up Device	1/3" Sony Super HAD CCD	
Scanning Frequency	15.734KHz(H), 59.94Hz(V)	15.625KHz(H), 50Hz(V)
Synchronization	Internal / Line lock	
Resolution	570TV Lines	
Video Output	1.0Vp-p / 75(Video 0.714Vp-p, Sync 0.286Vp-p)	
S/N Ratio	50dB (AGC off / Sharpness off)	
Min. Illumination	0.3 Lux(F1.2-Color) / 0.02 Lux (Sens-up, 128X)	
Gain Control	Low / Middle / High / Off selectable	
DNR	Low / Middle / High / Off selectable(Noise control)	
White Balance	ATW / AWC / Manual selectable (1,800 ~10,500)	
BLC	Low / Middle / High / Off selectable	
Electronic Shutter	Auto / Manual (1/ 60 ~ 1/100,000sec)	1/ 50~1/100,000sec
Sens-up	Auto / Off (selectable Limit 2X ~ 128X)	
OSD	On / Off	
Motion Detection	On / Off (4 Programmable zone, Screen display)	
Mirror	On / Off (Horizontal image inversion)	
Privacy Function	On / Off (4 Programmable zone)	
Sharpness	On / Off (Level adjustable)	
IRIS Control	DC / Video	
Lens Mount	C / CS Mount (Screw lock)	
Power	DC 12V, (DC 12V & AC 24V, AC 220V)Optional	
Operating Temprature	-10~+50	
Operating Hummidity	30% ~ 80% RH	
Dimension	54(W) x 52(H) x 100(D)mm	
Weight	Approx 300g	

Picture View

Dimensions



OSD Setup Menu



Setup Menu				
Lens (selects lens)	●MANUAL	●DC/VIDEO		
Shutter (adjusts shutter mode and speed)	●ESC	●MANUAL	●FLK	
White Balance (adjusts white balance)	●ATW	●AWC	●MANUAL	
Back Light (provides backlight compensation)	●OFF	●LOW	●MIDDLE	●HIGH
AGC (AUTO GAIN CONTROL)	●OFF	●LOW	●MIDDLE	●HIGH
DNR (Digital noise reduction)	●OFF	●LOW	●MIDDLE	●HIGH
Sens-Up (Low illuminance)	●OFF	●AUTO		
Special Menu	●CAMERA ID	●COLOR		
	●SYNC	●MOTION DETECTION		
	●PRIVACY	●MIRROR		
	●SHARPNESS	●RESET		
Exit				

C & CS Mount Day & Night Camera

KCC-41 / 27

Function

Electronical Features

- Instant image conversion from Color to B/W at 2 Lux (True D/N)
- OLPF (Optical low-pass filter) is exchanged automatically
- Super low lux sensitivity of 0.01 Lux/F1.2 - Super HAD
- Extremely accurate color reproduction with 10 bit data process
- Surge voltage input protection built in
- Reverse polarity power input protection built in
- Built-in DIP SW functions (ALC/ESC, BLC, AWB/MWB)

Mechanical Features

- Intelligent C/CS mount mechanism
- Flange back focus adjustable
- Moden design
- Easy-to-install mechanism
- Easy access to Dip SW for function adjustment
- Dual filter mechanism

Optional Features

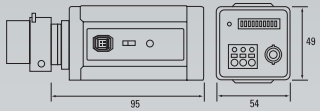
- High sensitive external Audio with C-Microphone " - 35dB / mV "

Specifications

Model no.		**KCC-27**	**KCC-41**
Nomal / Day & Night		Nomal / Day & Night	Nomal / Day & Night
Image format		1/3" Sony Super HAD	
Effective pixels	NTSC	510(H) x 492(V)	768(H) x 494(V)
	PAL	500(H) x 582(V)	752(H) x 582(V)
H-Resolution		420TV Lines STD-resolution	550TV Lines High-resolution
Sync. system		Internal	
Min. illumination		0.3Lux @F1.2	0.5 Lux@F1.2
Scanning system		NTSC : 525 Lines, PAL : 625 Lines, 2:1 Interlaced	
Video output		1.0Vp-p composite. 75 Ohms	
S/N ratio		More than 50dB (AGC off)	
Back light compensation		On / Off by Dip switch	
Lens		C-Mount (17.5mm Flange back) ~ CS-Mount (12.5mm Flange back) & Fine focus ±1.0mm	
Iris control		Video Iris / ESC / DC Iris	
Shutter speed		NTSC : 1/60 ~ 1/100,000 sec, PAL : 1/50 ~ 1/100,000 sec	
Gamma		Standard r= 0.45	
White balance		2100°K ~ 9100°K (Automatic or Manually adjustable by Dip S/W)	
Gain control		4dB ~ 30dB Auto	
Smear effect		0.005%	
MTBF		80,000 hours	
Power sources		DC12V (Input tolerance:10V~15V) / 130mA	
Operating temperature		14°F~ 122°F (-10°C ~ +50°C)	
Humidity		Within 90% RH	
Rear panel		Video out(BNC), Power indicator, Power input terminal, Dip switch, Line phase push button, W/B adjust push button	
Side panel		Auto iris jack, Iris mode slide S/W, DC iris level volume	
Weight (Approx.)		0.3kg	
Dip S/W function	ESC/ALC	O	
	BLC On/Off	O	
	F/L On/Off	O	
	AGC Nor/Max	O	

Picture View

Dimensions



Power LED
DIP Switch Function
- Day & Night
Auto [Color & B/W] Automatic switching
Manual [Color or B/W] selection
- White balance
ATW / PUSH / HOLD selection
- AGC : High / Low selection
- Flickerless : On / Off selection
- Auto exposure reference
On / Off selection
- Auto Iris Mechanical / Electronic selection
- BLC : On / Off selection
Power Terminal
DC 12V
Video Output

Function

Electronical Features
- Extremely accurate color reproduction with 10 bit data process
- Surge voltage input protection built in
- Reverse polarity power input protection built in
- Built-in DIP SW functions (ELC, BLC, AGC, F/L)

Mechanical Features
- Intelligent C/CS mount mechanism
- Flange back focus adjustable
- Modern design
- Easy-to-install mechanism
- Easy access to Dip SW for function adjustment

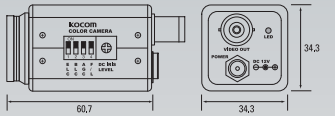
Optional Features
- High sensitive external Audio with C-Microphone " - 35dB / mV "

Picture View

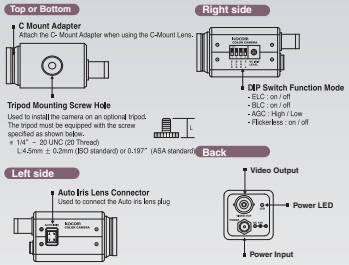
Specifications

Model no.		KCC-S41	KCC-S27
Image Sensor device		1/3" Color Sony Super HAD CCD	
Total pixels	NTSC	811(H) x 508(V)	537(H) x 505(V)
	PAL	795(H) x 596(V)	537(H) x 597(V)
Effective pixels	NTSC	768(H) x 494(V)	510(H) x 492(V)
	PAL	752(H) x 582(V)	500(H) x 582(V)
Scanning system		2:1 Interlace	
Scanning frequency	NTSC	Standard 525 Lines 15.734KHz(H), 59.94Hz(V)	
	PAL	Standard 625 Lines 15.625KHz(H), 50Hz(V)	
S/N ratio		More than 48dB	
Horizontal resolution		540TV Lines	380TV Lines
Shutter speed	NTSC	1/60 ~ 1/100,000sec	
	PAL	1/50 ~ 1/100,000sec	
Minimum illumination		more than 0.1Lux / F1.6 (AGC On)	
Sync. system		Internal	
Video output		VBS 1.0V p-p Composite (75Ω)	
Auto Iris		DC Iris Lens	
Gamma		r = 0.45	
Lens mount		Changeable mount for C or CS type Lens	
ELC		ON / OFF selectable	
BLC		ON / OFF selectable	
AGC		High / Low selectable	
Flickerless		ON / OFF selectable	
Power consumption		DC 12V± 2V / 250mA (Max. 3 Watts)	
Operation temperature		-10℃ ~ 50℃	
Humidity		Within 90% RH	
Weight (Approx.)		0.2kg	

Dimensions



Component's Name


Top or Bottom
C Mount Adapter
Attach the C- Mount Adapter when using the C-Mount Lens.
Tripod Mounting Screw Hole
Used to install the camera on an optional tripod. The tripod must be equipped with the screw specified as shown below.
1/4" – 20 UNC (20 Thread)
L:4.5mm ± 0.2mm (ISO standard) or 0.197" (ASA standard)
Right side
DIP Switch Function Mode
- ELC : on / off
- BLC : on / off
- AGC : High / Low
- Flickerless : on / off
Back
Left side
Auto Iris Lens Connector
Used to connect the Auto iris lens plug
Video Output
Power LED
Power Input

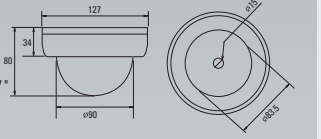
Function

Electronical Features
- Instant image conversion from Color to B/W at 2 Lux (True D/N)
- Super low lux sensitivity of 0.01Lux@F2.0 (Ex-view HAD), 0.1Lux@F2.0 (Super HAD)
- Extremely accurate color reproduction with 10 bit data process
- 12VDC/24VAC Line lock Dual power with Non-polarity input
- Surge voltage input protection built in
- Reverse polarity power input protection built in
- Built-in DIP SW functions (ALC/ESC, BLC, INT/L.L, AWB/MWB)

Mechanical Features
- Poly carbonate clear cover
- Weatheproof (IP66)
- Easy-to-install mechanism
- Compact and beautiful design
- Easy access to Dip SW for function adjustment

Optional Features
- High sensitive external Audio with C-Microphone " - 35dB / mV "
- 940~850nm IR sensitive • Vari focal lens

Dimensions



Specifications

Model no.		COLOR	
		KCC-VP400	KCC-VP400X
Image Format		1/3" Sony Super HAD	1/3" Sony Ex-view HAD
Effective pixels	NTSC	768(H) x 494(V)	768(H) x 494(V)
	PAL	752(H) x 582(V)	752(H) x 582(V)
H-Resolution		500 TV Lines	500 TV Lines
		High-resolution	High-resolution
Sync. system	Internal	Internal	Internal
	Line Lock	O	O
Scanning system		NTSC : 525 Lines, PAL : 625 Lines, 2:1 Interlaced	
Video output		1.0Vp-p composite. 75 Ohms	
S/N ratio		More than 50dB (AGC off)	
Shutter speed		NTSC : 1/ 60 ~ 1/ 100,000 sec, PAL : 1/ 50 ~ 1/ 100,000 sec	
Gamma correction		r= 0.45	
White balance		2100°K ~ 9100°K Auto	
Gain control		4dB ~ 30dB Auto	
Smear effect		0.005%	
MTBF		20,000 hours	
Power sources	DC12V version	DC12V (regulated) / 530mA	
	DC12V / AC24V	DC12V (Input tolerance:11.5V~40V / 480mA, Non-polarity	
	Dual power version	AC24V (Input tolerance:9.0V~30VAC) / 220mA, Non-polarity	
Lens	Mono-focal	Standard	f = 3.6mm (92°)
		Exchangeable	2.9mm, 4.3mm (78°), 6.0mm (54°), 8.0mm (39°), 12mm, 16mm
	Vari-focal zoom 4-9mm		Electronic IRIS : 4mm ~ 9mm Vari-focal (D 92.6° ~ 39.4°, H 71° ~ 31.6°) : "-VF49"
			Auto DC IRIS : 4mm ~ 9mm Vari-focal (D 92.6° ~ 39.4°, H 71° ~ 31.6°) : "-VFA49"
	2.6-6mm		Electronic IRIS : 2.6mm ~ 6mm : "-VF26" / Auto DC IRIS : 2.6mm ~ 6mm : "-VFA26"
Operating temperature		14°F~ 122°F (-10℃ ~ +50℃)	
Humidity		Within 90% RH	
Output terminal		4 feet DIY cable with BNC-female for Video, 2P screw terminal for Power	
Measuremet (mm)		127 (D) X ø90 X 81 (L)	
Weight (Approx.)		0.7kg	
Dip S/W function	ESC/ALC	O	O
	BLC on/off	O	O
	Flickerless on/off	O	O
	Internal/Line Lock	X	O
	AWB/MWB	X	O
	AGC Nor/Max	O	O
	Gammar 0.45/1.0	O	O
Optional features	True day/night	O	O
	Dual filter mechanism	O	O
	IR sensitivity	O	O
	External Audio	O	O

Dome Camera

Vandal Proof Varifocal Dome Camera

Vandal Proof Varifocal Dome Camera

KCV-VS660

KCD-VS500

KCD-VS500IR

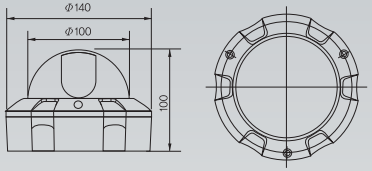
Varifocal Doom Camera

KCD-VS500 / VS500IR

Function

- High Resolution 1/3" Sony Super HAD CCD (560 TV Lines)
- Varifocal lens (4~9mm)
- Day & Night with Sense-up function (256X)
- Privacy Function (Up to 12 zones)
- Electronic IRIS (1/60 ~ 1/120,000 seconds)
- CCVC (Camera Control Via Coaxial cable)
- High sensitivity (0.00004 Lux with Sense-up)
- DNR (Digital Noise Reduction)
- Controlled by OSD Menu

Dimensions



Specifications

Sub-items	NTSC		PAL	
CCD Device	SONY 1/3" CCD		SONY 1/3" CCD	
Total Pixel	811 x 508		795 x 596	
Effective Pixel	768 x 494		752 x 582	
Inter. H/V Sync	15,734 / 59.94Hz		15,625 / 50Hz	
LL H/V Sync	15,750 / 60Hz		15,625 / 50Hz	
Horizontal Resolution	More than 560(Color) / 600(BW)TV Lines			
Minimum illumination (F1.2)	Color mode	50 IRE	25 IRE	15 IRE
	Sens Off	0.4 Lux	0.2 Lux	0.12 Lux
	Sens x256	0.001 Lux	0.0007 Lux	0.0004 Lux
	BW mode	50 IRE	25 IRE	15 IRE
	Sens Off	0.04 Lux	0.02 Lux	0.012 Lux
	Sens x256	0.0001 Lux	0.00007 Lux	0.00004 Lux
S/N Ratio	52dB			
OSD	E / F / S / J / P, (E/K)		E / F / G / S / I, (Chinese)	
Privacy Zone	8ea (Polygonal Method,4points)			
Day & Night	Out put the Filter changing signal			
Motion Detection	Off / On (Advanced)			
D-Zoom	x1~x10 (x0.1STEP)			
High Speed Shutter	1/60(1/50)~1/10Ksec			
Flickerless	Off / On			
Sense Up (Low Shutter)	x2 ~ x256			
BLC	Off / On (Area Setting)			
AGC	Off / On (Max. Level Setting)			
ALC(Auto Level Control)	AI Lens (DC/VIDEO)			
ELC(Electronic Level Control)	Off / On (~ 1/200Ksec)			
Lens	4~9mm V/F DC AUTO IRIS			
Line Lock	Off / On (Phase Control)			
Camera ID	Off / On (Max.54ea/2Line)			
White Balance	ATW1/ATW2/AWC/MANUAL(ATW1:2500~9300°K,ATW2:2000~10000°K)			
DNR	Off / On (Adaptive 3D+2D)			
DIS	Off / On			
Etc. Function	Detail, Reverse (H/V), Posi/Nega, PIP			
Alarm Output	1ea (Open Collector)			
Remote Control	UART (Txd/RXd,3Vp-p) CCVC (with SCX-RD100)			
Video Output	VBS1.0Vp-p (75ohmTerminated)			
Power Input	DC+12V ±10% (Option : Dual power DC12V/AC24V)			
Power Consumption	Lessthan 2.4Watts			
Operating Temperature	Absolute : -10°C~+50°C			
Operating Humidity	Less than 90%			
Dimension	57mm x 55mm x 85mm			

Function

- **High Sensitivity**
  Clear image under the illumination of by 1/3" Sony Super HAD CCD.
- **High Resolution Performance**
  High Resolution Quality of more than 570TV Lines in its resolution
- **Varifocal DC/Manual Iris Lens (2.8~11mm)**
- **Compact Case**
  Size : 100 ø
- **30 IR LED (KCD-VS500IR)**

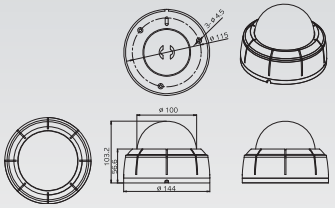
Picture View

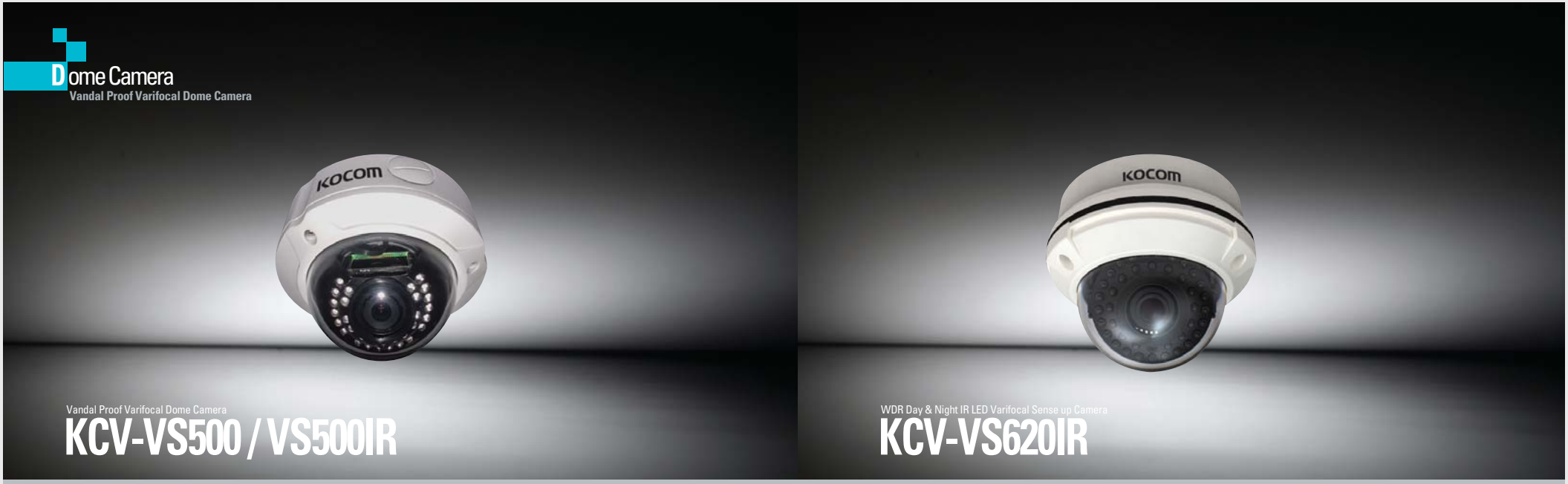
Specifications

ITEM	KCD-VS500	KCD-VS500IR	
Signal System	NTSC / PAL	NTSC / PAL	
Image Sensor	1/3" Sony Super HAD CCD Sensor	1/3" Sony Super HAD CCD Sensor	
Scanning System	525 Lines 2:1 Interlace	525 Lines 2:1 Interlace	
	/ 625 Lines 2:1 Interlace	/ 625 Lines 2:1 Interlace	
Resolution	570TVL	Color	B/W
		570TVL	600TVL
Scanning Frequency	15.734KHz (H), 59.94Hz (V)	15.734KHz (H), 59.94Hz (V)	
	/ 15.625KHz (H), 50Hz (V)	/ 15.625KHz (H), 50Hz (V)	
Shutter Speed	1/60 ~ 1/100,000 sec	1/60 ~ 1/100,000 sec	
	/ 1/50 ~ 1/100,000 sec	/ 1/50 ~ 1/100,000 sec	
S/N Ratio	More than 48dB (AGC Off)	More than 48dB (AGC Off)	
Min. Illumination	0.1 Lux	0.00 Lux with IR-LED (30ea)	
Functions	Mirror, BLC, FLC	DNR, SUPER BLC, Sens-Up, Privacy Masking, D-Zoom	
Video Output	Composite 1.0 Vp-p (75ohm Load)	Composite 1.0 Vp-p (75ohm Load)	
Lens	2.8~11mm DC Iris Lens	2.8~11mm DC Iris Lens	
Power Supply	DC8 ~ 14V	DC8 ~ 14V	
Power Consumption	150mA (DC12V)	150mA (DC12V) / 500mA (DC12V)at IR LED On	
Operating Temp	-10°C ~ +50°C	-10°C ~ +50°C	
Operating Humidity	90% RH max.	90% RH max.	
Dimension	100 ø	120 ø	

SET UP Menu			
BRIGHTNESS	•LEVEL ADJUST		
EXPOSURE	•ALC	•ESC	
WHITE BALANCE	•ATW	•AWC	•PUSH
	•MANUAL		
BACK LIGHT	•DRC	•BLC	•OFF
GAIN	•OFF	•LEVEL	•DNR
SENS-UP	•OFF	•AUTO	
DAY / NIGHT	•AUTO	•EXT	•COLOR
	•BW		
SPECIAL	•CAM-ID	•SYNC	•MOTION DET
	•PRIVACY	•MAGE CTRL	•SYSTEM CTRL
	•RESET	•RETURN	
EXIT			

Dimensions



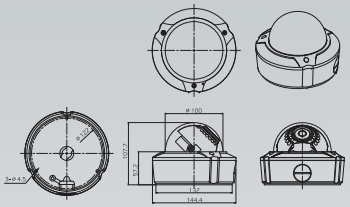


Function

- **High Sensitivity**
  Clear image under the illumination of by 1/3" Sony Super HAD CCD.
- **High Resolution Performance**
  High Resolution Quality of more than 570TV Lines in its resolution
- **Varifocal DC/Manual Iris Lens**
- **Compact Case**
  Size : 100 ø
- **30 IR LED (KCV-VS500IR)**

Picture View

Dimensions



Specifications

ITEM	KCD-VS500	KCD-VS500IR	
Signal System	NTSC / PAL	NTSC / PAL	
Image Sensor	1/3" Sony Super HAD CCD Sensor	1/3" Sony Super HAD CCD Sensor	
Scanning System	525 Lines 2:1 Interlace	525 Lines 2:1 Interlace	
	/ 625 Lines 2:1 Interlace	/ 625 Lines 2:1 Interlace	
Resolution	570TVL	Color	B/W
		570TVL	600TVL
Scanning Frequency	15.734KHz (H), 59.94Hz (V)	15.734KHz (H), 59.94Hz (V)	
	/ 15.625KHz (H), 50Hz (V)	/ 15.625KHz (H), 50Hz (V)	
Shutter Speed	1/60 ~ 1/100,000 sec	1/60 ~ 1/100,000 sec	
	/ 1/50 ~ 1/100,000 sec	/ 1/50 ~ 1/100,000 sec	
S/N Ratio	More than 48dB (AGC Off)	More than 48dB (AGC Off)	
Min. Illumination	0.1 Lux	0.00 Lux with IR-LED (30ea)	
Functions	Mirror, BLC, FLC	DNR, SUPER BLC, Sens-Up, Privacy Masking, D-Zoom	
Video Output	Composite 1.0 Vp-p (75ohm Load)	Composite 1.0 Vp-p (75ohm Load)	
Lens	2.8~11mm DC Iris Lens	2.8~11mm DC Iris Lens	
Power Supply	DC8 ~ 14V	DC8 ~ 14V	
Power Consumption	150mA (DC12V)	150mA (DC12V) / 500mA (DC12V)at IR LED On	
Operating Temp	-10℃ ~ +50℃	-10℃ ~ +50℃	
Operating Humidity	90% RH max.	90% RH max.	
Dimension	100pie, 144x103.2mm	120pie Size	

SET UP Menu

BRIGHTNESS	• LEVEL ADJUST		
EXPOSURE	• ALC	• ESC	
WHITE BALANCE	• ATW	• AWC	• PUSH
	• MANUAL		
BACK LIGHT	• DRC	• BLC	• OFF
GAIN	• OFF	• LEVEL	• DNR
SENS-UP	• OFF	• AUTO	
DAY / NIGHT	• AUTO	• EXT	• COLOR
	• BW		
SPECIAL	• CAM-ID	• SYNC	• MOTION DET
	• PRIVACY	• MAGE CTRL	• SYSTEM CTRL
	• RESET	• RETURN	
EXIT			

Function

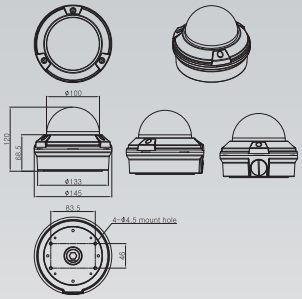
- Hightest Resolution, 1/3" SONY Super HAD CCD II (620TV Lines)
- Varifocal lens 3.5~16mm
- 40 IR LEDs (Visibility range 30m)
- 3D_DNR (3D Digital Noise Reduction)
- DIS (Digital Image Stabilizer)
- HME (Highlight Mask Exposure Control)
- Privacy Masking Zone (6 Zone)
- IP68 Prefect Water-Resistant
- Extra Video Output
- Adjustable LED Power/Angle.
- ICON OSD [On screen Display] Control

Specifications

Type	NTSC	PAL
Image Sensor	1/3" Sony CCD(ICX638/ICX639)	
Effective Pixels	811[H] x 508[V]	795[H] x 596[V]
Scanning Frequency	15.734[KHz] / 59.95[Hz]	15.625[KHz] / 50[Hz]
Scanning System	2:1 Interlace	
Shutter Speed	1/60s~1/100,000s	1/50s~1/100,000s
Resolution	620 TV Lines	
S/N Ratio	More than 50dB (AGC OFF)	
Wide Dynamic Range	52db(x128)	
Min illumination	0.1Lux [F1.2, 30IRE], (at TDN_BW)	
Gamma	r=0.45	
Lens	IR Filter Change Type DC Auto Iris Lens [3.5~16mm]	
Sync System	Internal	
Auto Gain Control	High / Middle / Low / Off Selectable	
Sens Up	Auto / Fixed / Off [Selectable x2~x256]	
Motion Detection	On / Off [1 Zone ISO Control / Output OSD]	
DNR	Off / Middle / High	
Privacy	On / Off [6 Zone]	
Mirror	On / Off [H-Rev, V-Rev]	
D&N Selection	Color/BW/Auto Selectable	
Freeze	On / Off	
Sharpness	Level Adjustable	
White Balance	Auto / Color / BW / C_SUP / A-SUP	
On Screen Display	Support	
Video Out	VBS 1.0Vp=p/75 Ω	
Power	DC12V / 430mA, [6.0W] / AC24V / 400mA, [8.0W]	
Power Supply	Regulated DC12V 1.0A or AC24V 1.0A Power Supply	
Operating Temps	-10℃ ~ +50℃	
IR LED	Wave 850mm / 40EA	
Outside Control	Focus [Far-Near] / Zoom [Wide-Tele]	
Dimension	100(W) x 120(H) x 146.6(D) mm	
Weight	900g	

Picture View

Dimensions



Dome Camera
IR Day & Night Vandal Proof Dome Camera
IR Vandal Proof Day & Night Varifocal Dome Camera
KCC-IRVP400V / 300V
IR Vandal Proof Day & Night Dome Camera
KCC-IRVP400F / 300F
IR Vandal Proof Day & Night Dome Camera
KCC-IRSD400

Function

- KCC-IRVP400V : 1/3" Sony Super HAD CCD 410k
- KCC-IRVP300V : 1/3" Sony Super HAD CCD 270k
- Built in Varifocal Lens (f:4~9mm@F=1.6)

- KCC-IRVP400F : 1/3" Sony Super HAD CCD 410k
- KCC-IRVP300F : 1/3" Sony Super HAD CCD 270k
- Built in fixed board lens (f:6mm@F=2.0)

- High Resolution
- CDS Auto Switching Infrared LED
- 24 Infrared LED
- Visibility range 20m
- Operation of degree : Panning 0°~355°, Tilting 10°~90° (Manual Pan & Tilt)
- Vandal proof with aluminum housing

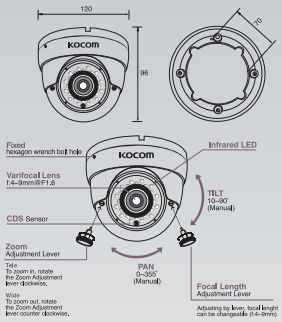
Picture View

Specifications

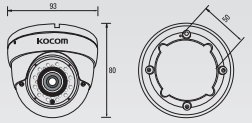
Model no.		KCC-IRVP400V	KCC-IRVP300V	KCC-IRVP400F	KCC-IRVP300F
Image Sensor device		1/3" Color Sony Super HAD CCD			
Total pixels	NTSC	811(H) x 508(V)	537(H) x 505(V)	811(H) x 508(V)	537(H) x 505(V)
	PAL	795(H) x 596(V)	537(H) x 597(V)	795(H) x 596(V)	537(H) x 597(V)
Effective pixels	NTSC	768(H) x 494(V)	510(H) x 492(V)	768(H) x 494(V)	510(H) x 492(V)
	PAL	752(H) x 582(V)	500(H) x 582(V)	752(H) x 582(V)	500(H) x 582(V)
Scanning system		2:1 Interlace			
Scanning frequency	NTSC	15.734KHz(H), 59.94Hz(V)			
	PAL	15.625KHz(H), 50Hz(V)			
S/N ratio		More than 52dB (AGC Off)			
Visibility range		24 Unit infrared LEDs (850nm) : 20m			
Resolution		More than 600 TV Lines			
Shutter speed	NTSC	1/60 ~ 1/100,000sec			
	PAL	1/50~1/100,000sec			
Minimum illumination		more than 0.005Lux (LED on)			
Sync. system		Internal			
Video output		VBS 1.0V p-p Composite (75Ω)			
Lens		f:4~9mm@F1.6 Varifocal Lens		f:6mm@F2.0 Fixed Board Lens	
White balance		Auto			
Video output jack		BNC connector			
Power input jack		Ø5.5 Jack			
Power consumption		DC12V ± 2V (Max.1.7W, 4.8W with IR LED)			
Material & Dome Size		Aluminum Housing 120Ø		Aluminum Housing 93Ø	
Operation Temperature		-10℃~ 50℃			
Humidity		Within 90% RH			
Weight (Approx.)		1kg		0.6kg	

Dimensions

• KCC-IRVP400V / 300V



• KCC-IRVP400F / 300F



Function

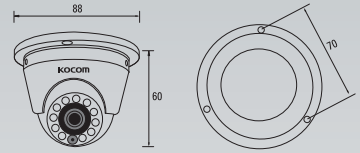
- KCC-IRSD400 : 1/3" Sony Super HAD CCD 410k
- High Resolution
- CDS Auto Switching Infrared LED
- 11 Infrared LED
- Visibility range 10m
- Vandal proof with aluminum housing

Picture View

Specifications

Model no.		KCC-IRSD400
Image Sensor device		1/3" Color Sony Super HAD CCD
Total pixels	NTSC	811(H) x 508(V)
	PAL	795(H) x 596(V)
Effective pixels	NTSC	768(H) x 494(V)
	PAL	752(H) x 582(V)
Scanning system		2:1 Interlace
Scanning frequency	NTSC	Standard 525 Lines 15.734KHz(H), 59.94Hz(V)
	PAL	Standard 625 Lines 15.625KHz(H), 50Hz(V)
S/N ratio		More than 48dB (AGC Off)
Visibility range		11 Unit infrared LEDs (850nm) : 10m
Horizontal resolution	Day	480TV Lines
	Night	520TV Lines
Shutter speed	NTSC	1/60 ~ 1/100,000sec
	PAL	1/50~1/100,000sec
Minimum illumination		more than 0.005Lux (LED on)
Sync. system		Internal
Video output		VBS 1.0V p-p Composite (75Ω)
Lens mount		Fixed Board Lens (f:6.0mm@F2.0) Standard
White balance		Auto
Video output jack		BNC connector
Power input jack		Ø5.5 Jack
Power consumption		DC12V ± 2V (Max.1.7W, 4.8W with IR LED)
Operation temperature		-10℃~ 50℃
Humidity		Within 90% RH
Weight (Approx.)		0.4kg

Dimensions



Dome Camera
Color Mini Dome Camera

KCC-D400 / D300

KCB-D300 / 100

Color Mini Dome Camera

KCC-D400 / D300 / 100 / KCB-D300

KCD-F850 / F750

KCD-260

KCD-F772IR

Color Dome Camera / Color IR Dome Camera

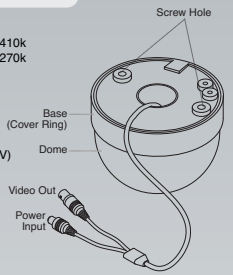
KCD-F850 / F750 / 260 / KCD-F772IR

Function

KCC-D400 / D300
- KCC-D400 : 1/3" Sony Super HAD CCD 410k
- KCC-D300 : 1/3" Sony Super HAD CCD 270k
- Clear Image Performance
- Durable Dome Cover
- Optically Correct Clear Window
- Easy-to-install Mechanism

KCC-100
- 1/4" Pixelplus C-MOS
- 648(H) ×488(V)
- more than 420 TV Line
- 1.0Lux@F2.0

KCB-D300
- Clear Image Performance
- Durable Dome Cover
- Optically Correct Clear Window
- Easy-to-install Mechanism

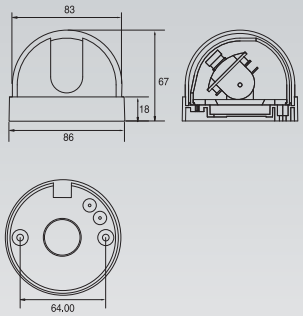


Picture View

Specifications

Model No.		KCC-D400	KCC-D300	KCB-D300
Image Sensor device		1/3" Sony Super HAD CCD		1/3" B/W CCD
Total pixels	NTSC(EIA)	811(H) x 508(V)	537(H) x 505(V)	
	PAL(CCIR)	795(H) x 596(V)	537(H) x 597(V)	
Effective pixels	NTSC(EIA)	768(H) x 494(V)	510(H) x 492(V)	
	PAL(CCIR)	752(H) x 582(V)	500(H) x 582(V)	
Scanning system		2:1 Interlace		
Scanning frequency	NTSC(EIA)	Standard 525 Lines 15.734KHz(H), 59.94Hz(V)		
	PAL(CCIR)	Standard 625 Lines 15.625KHz(H), 50Hz(V)		
Horizontal resolution		more than 550 TV line	more than 450TV line	
Video output		VBS 1.0V p-p Composite (75Ω)		
S/N ratio		more than 48dB (AGC/Off)		
Minimum illumination		0.3Lux@F1.2	1.0Lux@F2.0	0.8Lux@F2.0
Gamma		r = 0.45		
Shutter speed	NTSC(EIA)	1/60 ~ 1/100,000sec		
	PAL(CCIR)	1/50 ~ 1/100,000sec		
Lens		f=3.6mm (92°) (Standard), 2.5mm, 4.3mm, 6mm (option)		
White balance		Auto		
Gain control		Auto		
Operation temperature		-10℃ ~ 50℃		
Humidity		Within 90% RH		
Power sources		DC 12V±2V / 170mA		
Output terminal		BNC (video), RCA (power)		
Weight (Approx.)		0.3kg		

Dimensions



Function

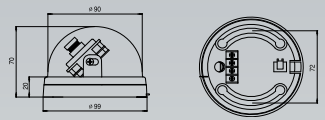
KCD-F850
- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 550TVL (410K Pixels)

KCD-F750
- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 380TVL (270K Pixels)

KCD-260
- 1/3" Super HAD CCD (SONY)
- High sensitivity
- Low smear
- 420 TVL (270k pixels)
- 3.6mm Fixed Lens
- Audio (option)

KCD-F7721IR
- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 550TVL(410K Pixels)
- 30 IR LED Sensors

Dimensions



Specifications

Model	KCD-F850, KCD-F750		KCD-260		KCD-F772IR	
Signal System	NTSC	PAL	NTSC	PAL	NTSC	PAL
Total Pixels	410K / 380K	470K / 440K	410K / 380K	470K / 440K	410K/380K	470K/440K
Pick-Up Device	1/3" Interline Super HAD CCD(SONY)		1/3" Interline Super HAD CCD(SONY)		1/3" Interline Super HAD CCD (SONY)	
Lens	Fixed Lens (f= 3.6 F#2.0)		Fixed Lens (f= 3.6 F#2.0)		Fixed Lens (f : 3.6, F#2.0)	
Signal Process	Digital Signal Process		Digital Signal Process		Digital Signal Process	
Scanning System	2:1 Interlace		2:1 Interlace		2:1 Interlace	
Sync. System	Internal		Internal		Internal	
Scanning Frequency	59.94Hz (VD)	50Hz (VD)	59.94Hz(VD)	50Hz(VD)	59.94Hz(VD)	50Hz(VD)
Resolution	550 TV Lines(H)	380TV Lines(H)	420 TV Lines(H)		550 TV Lines(H)	
S/N Ratio	More than 48dB		More than 48dB		More than 48dB	
Standard Illuminance	2000 Lux (3200 ₭)		2000 Lux (3200 ₭)		2000 Lux (3200 ₭)	
Sensitivity	0.2 Lux F2.0		0.2 Lux F2.0		0 Lux(IR On)	
Video Output	1.0 Vp-Composite (75Ω)		1.0 Vp-Composite (75Ω)		1.0 Vp-Composite (75Ω)	
Gain Control	On		On		On	
Flickerless	Off		Off		OFF	
White Balance	Auto		Auto		Auto	
Back Light	Off		Off		Off	
Shutter Speed	1/60~1/100,000 sec	1/50~1/100,000 sec	1/60~1/100,000 sec	1/50~1/100,000 sec	1/60~1/100,000 sec	1/50~1/100,000 sec
Power Source	DC 10V~14V		DC 10V~14V		DC 10V~14V	
Power Consumption	Less than 1.8Watts		Less than 1.8Watts		Less than 3.5Watts	
Infrared	-		-		30 Pieces IR	
Operating Temp.	-10℃~ 50℃ (Humidity : 0%RH~80%RH)		-10℃~ 50℃ (Humidity : 0%RH~80%RH)		-10℃~ 50℃ (Humidity : 0%RH~80%RH)	
Storage Temp.	-20℃~ 60℃ (Humidity : 0%RH~85%RH)		-20℃~ 60℃ (Humidity : 0%RH~85%RH)		-20℃~ 60℃ (Humidity : 0%RH~85%RH)	
Dome Size(mm)	100Ø		100Ø		100Ø	
Weight	280 g		280 g		350 g	

Dome Camera
IR Dome Camera

KCD-V850 KCD-V772IR

Color Varifocal / Color Vairfocal IR Dome Camera

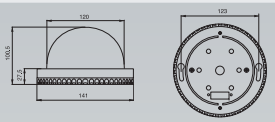
KCD-V850 / KCD-V772IR

Function

KCV-V850

- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 550TVL (410K Pixels)
- Varifocallens (4~9mm) DC Auto Iris

Dimensions



Function

KCD-V772IR

- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 550TVL (410K Pixels)
- Varifocal lens (4~9mm) DC Auto Iris
- 24 IR LED Sensor

Specifications

Model	KCD-V850		KCD-V772IR	
Signal System	NTSC	PAL	NTSC	PAL
Total Pixels	410K / 380K	470K / 440K	410K / 380K	470K / 440K
Pick-Up Device	1/3" Interline Super HAD CCD (SONY)		1/3" Interline Super HAD CCD(SONY)	
Lens	Vari-focal (f=4~9mm)		Varifocal (f : 4~9mm)	
Signal Process	Digital Signal Process		Digital Signal Process	
Scanning System	2 : 1 Interlace		2 : 1 Interlace	
Sync. System	Internal		Internal	
Scanning Frequency	59.94Hz (VD)	50Hz (VD)	59.94Hz (VD)	50Hz (VD)
Resolution	550 TV Lines(H)		550 TV Lines(H)	
S/N Ratio	More than 48dB		More than 48dB	
Standard Illuminance	2000 Lux (3200 K)		2000 Lux (3200 K)	
Sensitivity	0.2 Lux F2.0		0Lux (IR On)	
Video Output	1.0 Vp-Composite (75Ω)		1.0 Vp-Composite (75Ω)	
Gain Control	On		On	
Flickerless	OFF		OFF	
White Balance	Auto		Auto	
Back Light	Off		Off	
Shutter Speed	1/60~1/100,000 sec	1/50~1/100,000 sec	1 / 60~1 / 100,000 sec	1 / 50~1 / 100,000 sec
Power Source	DC 10V~14V		DC 10V~14V	
Power Consumption	Less than 1.8Watts		Less than 3.2Watts	
Operating Temp.	-10℃~ 50℃ (Humidity : 0%RH~80%RH)		-10℃~ 50℃ (Humidity : 0%RH~80%RH)	
Storage Temp.	-20℃~ 60℃ (Humidity : 0%RH~85%RH)		-20℃~ 60℃ (Humidity : 0%RH~85%RH)	
Infrared	-		24 Pieces IR	
Dome Size(mm)	120Ø		120Ø	
Weight	505g		550 g	

KCV-F850 KCV-V850 KCV-V772IR

Color Vandal Proof / Color Vandal Proof IR Dome Camera

KCV-F850 / V850 / V772IR

Function

KCV-F850

- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 550TVL (410K Pixels)

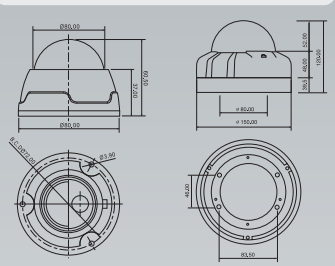
KCV-V850

- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- Vandal Proof
- 550TVL (410K Pixels)
- Normal Color or Day & Night Mode
- Varifocal lens (4~9mm) DC Auto Lris
- 3 Axis Built-in
- Sealed Weatherproof Case
- 24 IR LED Sensors

KCV-V772IR

- 1/3" Interline Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- Vandal Proof
- 550TVL (410K Pixels)
- Normal Color or Day & Night Mode
- Varifocal lens (4~9mm) DC Auto Lris
- 3 Axis Built-in
- Sealed Weatherproof Case
- 24 IR LED Sensors

Dimensions



KCV-F850 KCV-V850 / KCV-V7721IR

Specifications

Model	KCV-F850		KCV-V850		KCV-V772IR	
Signal System	NTSC	PAL	NTSC	PAL	NTSC	PAL
Total Pixels	410K/380K	470K/440K	410K/380K	470K/440K	410K/380K	470K/440K
Pick-Up Device			1/3" Interline Super HAD CCD(SONY)			
Lens	Fixed (f=3.6 F#2.0)		Varifocal lens (4~9mm) DC Auto Lris			
Signal Process			Digital Signal Process			
Scanning System			2:1 Interlace			
Sync. System			Internal			
Scanning Frequency	59.94Hz (VD)	50Hz (VD)	59.94Hz(VD)	50Hz(VD)	59.94Hz(VD)	50Hz(VD)
Resolution			550 TV Lines(H)			
S/N Ratio			More than 48dB			
Standard Illuminance			2000 Lux (3200 K)			
Sensitivity	0.2Lux (IR On)				0 Lux (IR On)	
Video Output			1.0 Vp-Composite (75Ω)			
Gain Control			On			
Flickerless			Off			
White Balance			Auto			
Back Light			Off			
Shutter Speed	1/ 60~1/100,000 sec	1 / 50~1/100,000 sec	1/ 60~1/100,000 sec	1 / 50~1/100,000 sec	1/60~1/100,000 sec	1/50~1/100,000 sec
Power Source			DC 10V~14V			
Power Consumption	Less than 3.2Watts		Less than 1.8 Watts			
Operating Temp.			-10℃~ 50℃ (Humidity : 0%RH~80%RH)			
Storage Temp.			-20℃~ 60℃ (Humidity : 0%RH~85%RH)			
Dome Size(mm)	80Ø		100Ø			
Weight	509 g		1,100 g			

Day & Night Bullet Camera

KCC-DB41 / B41 / B27

Function

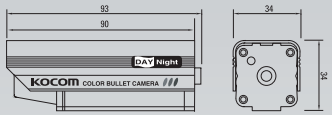
- 1/3" Sony Super HAD CCD
- 480TV lines of horizontal during daytime & 600TV lines at night with IR assist
- CDS Auto switching infrared LED
- 75 infrared LED (Visibility range 35m)
- Day & Night varifocal lens (f:4 ~ 9mm @ F1.6)
- Flickerless On / Off selection
- BLC On / Off selection
- Brightness control
- Water proof

Picture View

Specifications

Model no.		KCC-DB41	KCC-B41	KCC-B27
Image Sensor device		1/3" Sony Super HAD CCD		
Total pixels	NTSC	811(H) x 508(V)		537(H) x 505(V)
	PAL	795(H) x 596(V)		537(H) x 597(V)
Effective pixels	NTSC	768(H) x 494(V)		510(H) x 492(V)
	PAL	752(H) x 582(V)		500(H) x 582(V)
Scanning system		2:1 Interlace		
Scanning frequency	NTSC	Standard 525 Lines 15.734KHz(H), 59.94Hz(V)		
	PAL	Standard 625 Lines 15.625KHz(H), 50Hz(V)		
Horizontal resolution		480TV line		380TV line
Video output		VBS 1.0V p-p Composite (75Ω)		
S/N ratio		48dB (AGC/Off)		
Min. illumination	Color	1.0Lux@F1.2		
	B/W	0.005Lux@F0.75	X	
Gamma		r = 0.45		
Shutter speed		1/60 ~ 1/100,000sec (NTSC), 1/50 ~ 1/100,000sec(PAL)		
Lens	Standard	f:4mm@F2.0		
	Option	6mm, 12mm	6mm, 8mm, 12mm	
White balance		Auto		
Video output jack		BNC Connector		
Power input jack		Ø5.5 Jack		
Operation temperature		-10℃ ~50℃		
Humidity		Within 90% RH		
Power sources		DC 12V ± 2V / 200mA (Max. 2.4W)		
Weight (Approx.)		0.2kg		

Dimensions



Mini Pipe Camera

KCC-21C / 21CH

Function

- Crisp clear color reproduction
- Super low light sensitivity
- Compact size, beautiful design
- Lens exchangeable
- Condensation free
- Extremely low power consumption & wide working tolerance
- Easy installation

Picture View

Specifications

Model no.		KCC-21C	KCC-21CH
Image sensor		1/3" Super DSP Sharp CCD	
Total pixels	NTSC	537(H) x 505(V)	811(H) x 508(V)
	PAL	537(H) x 597(V)	795(H) x 596(V)
Effective pixels	NTSC	510(H) x 492(V)	768(H) x 494(V)
	PAL	500(H) x 582(V)	752(H) x 582(V)
Horizontal resolution		380TV Lines	480TV Lines
Sync. system		Internal	
Scanning frequency	NTSC	Standard 525 Lines 15.734KHz(H), 59.94Hz(V)	
	PAL	Standard 625 Lines 15.625KHz(H), 50Hz(V)	
Video output		VBS 1.0V p-p Composite (75Ω)	
S/N ratio		More then 50dB (AGC Off)	
Min. illumination		0.5 Lux@F2.0	
BLC		Automatic	
Gain control		4dB~30dB Auto	
Gamma correction		r=0.45	
White balance		Automatic	
Smear effect		0.005%	
Shutter speed	NTSC	1/60°~1/100,000 sec	
	PAL	1/50°~1/100,000 sec	
Lens	Standard	4.3mm(78°)	
	Option	3.6mm, 6mm, 8mm, 12mm, 16mm	
MTBF		80,000 hours	
Power source		DC12V	
Operating current		90mA w / regulated 12VDC in	
Operating temperature		-10℃~+50℃	
Humidity		Within 90% RH	
Output terminal		4 Foot DIY cable with BNC-Female for Video, DC Jack-Male for Power	
Measurement (mm)		21(D) x 77(L)	
Weight (Approx.)		0.2kg	
Optional Function 1		External Audio with C-Microphone " - 35dB / mV "	
Optional Function 2		Sun roof	
Optional Function 3		Infra-Red Light sensitive without loosing the true coloration at day light	

Dimensions

Color Bullet Camera

KCL-F190WX / P190

Function

KCC-F190W : Board Lens, Water Proof
KCC-P190W : Cone Pinhole Lens

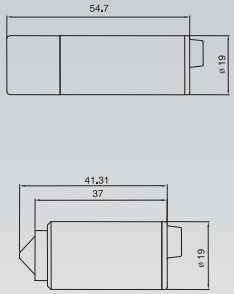
- 1/3" Super HAD CCD (Sony)
- High Sensitivilty
- Low Smear
- 550TVL (410K Pixels)
- Various Lenses Selectable

Picture View

Specifications

Model	KCL-F190WX / KCL-P190	
Signal System	NTSC	PAL
Total Pixels	410K/380K	470K/440K
Pick-Up Device	1/3" Interline Super HAD CCD(SONY)	
Lens	KCL-F190WX : f=3.6 (Option : 6, 8, 12, 16mm) / KCL-P190 : f=4.3(mm)	
Lens Mount	Board	
Signal Process	Digital Signal Process	
Scanning System	2:1 Interlace	
Sync. System	Internal	
Scanning Frequency	59.94Hz(VD)	50Hz(VD)
Resolution	550 TV Lines((H)	
S/N Ratio	More than 45dB (AGC off)	
Sensitivity	0.2 Lux / 30 IRE @ F2.0	
Video Output	1.0 Vp-p Composite (75Ω)	
Gain Control	Auto	
Flikerless	Off	
White Balance	Auto	
Back Light	Off	
Shutter Speed	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
Interface	Cable (Video : BNC, Power : DC Jack)	
Power Source	DC 10V ~ 14V	
Power Consumption	Less than 0.85Watts	
Operating Temp.	-10℃~50℃ (Humidity : 0%RH ~ 80%RH)	
Storage Temp.	-20℃~60℃ (Humidity : 0%RH ~ 85%RH)	
Dimensions(mm)	19 (Ø)	
Weight	95 g	

Dimensions



Mini Pipe Camera

KCB-1000W/ 100W / 100P

Function

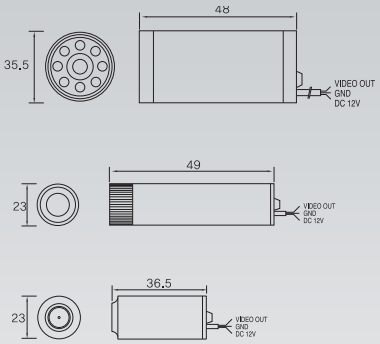
- Water proof with 8 IR & Sunroof (KCB-1000W)
- Weather proof (KCB-100W)
- Pinhole camera (KCB-100P)
- Compact size and beautiful design
- Easy installation

Picture View

Specifications

Model no.		KCB-1000W	KCB-100W	KCB-100P
Image sensor		1/3" B/W Sony Super HAD CCD		
Total pixels	EIA	537(H) x 505(V)		
	CCIR	537(H) x 597(V)		
Effective pixels	EIA	510(H) x 492(V)		
	CCIR	500(H) x 582(V)		
Horizontal resolution		400TV Lines		
Sync. system		Internal		
Scanning		2:1 Interlace		
Video output		VBS 1.0V p-p Composite (75Ω)		
Min. illumination		0.1 Lux	0.4 Lux	
S/N ratio		45dB		
Shutter speed	EIA	1/60 ~ 1/100,000sec		
	CCIR	1/50 ~ 1/100,000sec		
Power supply		DC 12V		
Powe counsuption		Max. 150mA	Max. 110mA	
Lens type		Board Lens f:3.6mm		Pinhole Lens
Reverse polarity protection		YES		
Operation temp.		-10℃ ~ 50℃		
Weight (Approx.)		0.2kg	0.1kg	
Option		IR LED 12EA AVAILABLE, Cable Lenght- 20M, 40M, 60M Sunvisor	-	
		Lens : 4.3mm, 6mm, 8mm, 12mm		-

Dimensions



Mini Camera
Miniature Square Camera

Color Miniature Square Camera

KCS-B250 / P250

Specifications

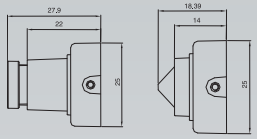
Model	KCS-B250 / KCS-P250	
Signal Saaystem	NTSC	PAL
Total Pixels	410K / 380K	470K / 440K
Pick-Up Device	1/3" Interline Super HAD CCD(SONY)	
Lens	KCS-B250 : f=3.6mm (Option : 2.45, 6, 8, 12mm), KCS-P250 : f=4.3mm	
Lens Mount	Board	
Signal Process	Digital Signal Process	
Scanning System	2:1 Interlace	
Sync. System	Internal	
Scanning Frequency	59.94Hz (VD)	50Hz (VD)
Resolution	550 TV Lines(H)	
S/N Ratio	More than 45dB (AGC off)	
Sensitivity	0.2 Lux / 30 IRE @ F2.0	
Video Output	1.0 Vp-p Composite (75 Ω)	
Gain Control	Auto	
Flikerless	Off	
White Balance	Auto	
Back Light	Off	
Shutter Speed	1/60 ~ 1/100,000sec	1/50 ~ 1/100,000sec
Interface	Cable (Video : BNC, Power : DC Jack)	
Power Source	DC 10V ~ 14V	
Power Consumption	Less than 1.10Watts	
Operating Temp.	-10℃ ~50℃ (Humidity : 0% RH ~ 80%RH)	
Storage Temp.	-20℃ ~60℃ (Humidity : 0% RH ~ 85%RH)	
Dimensns(mm)	25(W) x 25(H)	
Weight	95 g	

Function

KCS-B250 : Board Lens
KCS-P250 : Cone Pinhole Lens

- 1/3" Super HAD CCD (SONY)
- High Sensitivity
- Low Smear
- 550TVL (410K Pixels)
- Various Lenses Selectable

Dimensions



Color Miniature Square Camera

KCC-401 / P401

Color Miniature Square Camera

KCC-421 / P421

B/W Miniature Square Camera

KCB-421 / P421

Specifications

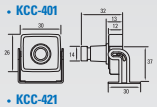
Model no.	KCC-421 / KCB-421	KCC-P421 / KCB-P421	KCC-401	KCC-P401
Image Sensor	1/3" Color Sony Super HAD CCD 1/3" B/W CCD		1/4" Color Sony Super HAD CCD	
Total pixels NTSC(EIA)	512 (H) x 492 (V)			
Total pixels PAL(CCIR)	500 (H) x 582 (V)			
Effective pixels NTSC(EIA)	510 (H) x 492 (V)			
Effective pixels PAL(CCIR)	500 (H) x 582 (V)			
Scanning frequency NTSC(EIA)	Standard 525 Lines 15.734KHz (H), 59.94Hz (V)			
Scanning frequency PAL(CCIR)	Standard 625 Lines 15.625KHz (H), 50Hz (V)			
Sync. system	Internal			
Horizontal resolution	more than 380 TV Lines			
Video output	VBS 1.0V p-p Composite (75Ω)			
S/N ratio	more than 48dB (AGC/Off)			
Minimum illumination	1Lux @ F1.2		1Lux @ F2.0	
Gamma	r = 0.45			
Shutter speed NTSC(EIA)	1/60 ~ 1/100,000 sec			
Shutter speed PAL(CCIR)	1/50 ~ 1/100,000 sec			
Lens	Board Lens f=3.7mm	Pin Hole Lens f=3.7mm	Board Lens f=3.7mm	Pin Hole Lens f=3.7mm
White balance / AGC	Auto			
Operation temperature	-10℃ ~50℃			
Humidity	Within 90% RH			
Power sources	DC 12V ± 2V / 130mA			
Weight (Approx.)	0.07kg		0.05kg	

Function

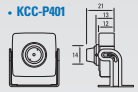
- Clear image performance
- Compact size & beautiful design
- Perfect back light correction
- Built-in audio
- Easy-to-install mechanism

Dimensions

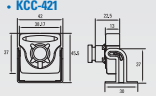
- KCC-401



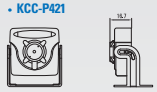
- KCC-P401



- KCC-421



- KCC-P421



Monitor
TFT LCD Monitor

Security LCD Monitor

KMC-19B / 17B

Function

- High quality & resolution (1,280 x 1,024@75Hz) LCD monitor
- Applicable as PC Monitor or security monitor
- Distinctive high designed interior
- User-focused interface
- Flexibility and convenience in mounting installation (Desk top or wall mount)

Picture View

Specifications

Model no.	KMC-19B	KMC-17B
Screen size	19"	17"
Outward color	Black	
Display size(mm)	376 x 301	337 x 270
Pixel pitch	0.294mm	0.264mm
Brightness	300cd/m2	
Contrast	700 : 1 (Typical)	
View angle	140/140 (Horizontal/Vertical)	
Response time	8ms	
Terminal	RGB input (15pin) : 1	
	CVBS in (BNC) : 1, CVBS out (BNC) : 1	
	S-Video in : 1, S-Video out : 1	
	Audio L : 1, Audio R : 1	
	Audio in : 1, Audio out : 1	
H-frequency	30 ~ 81Khz	
V-frequency	55 ~ 75Hz	
Resolution	1,280 x 1,024 @ 75Hz	
Display colors	16.7 million colors	
LCD	Hard - coating	
Plug & Play	VESA, DDCI, 2B	
Power	AC 100~240V, 50/60Hz, DC 12V/3.5A	
Power consumption	35W (Normal mode) 5W (Power-saving mode)	
Speaker (Option)	2W x 2W	
Dimension(mm)	495(W) x 155(D) x 508(H)	435(W) x 150(D) x 449(H)
Weight (Approx.) Monitor	5.4kg	4.9kg
Weight (Approx.) Package	7.4kg	6.6kg

Monitor
TFT LCD Monitor

15"LCD Monitor + 4ch DVR

KRS-LD04

DVR System
Digital Video Recorder

Entry Level H.264 Standalone DVR

KVR-0441LV

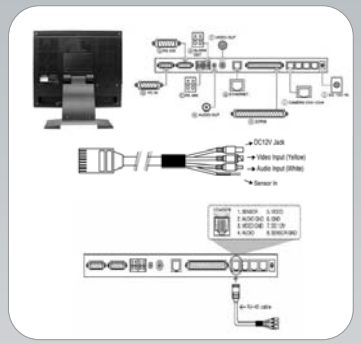
Function

- GUI (Graphic Users Interface)
- Easy operation by mouse & remote controller
- Modified MPEG4
- Pentaplex
- Network (web browser view) function
- USB Backup
- PTZ control
- All in One DVR
  - Stand alone DVR based in Network function (4ch,120fps)
  - 15" LCD Computer Monitor function
- Design
  - Distinctive high-Designed interior
  - Superior Stand Alone DVR & LCD Monitor
  - User-focused Interface
- Convenience
  - Remote Controller, Mouse control function
  - Monitoring on Web bases
  - Permanent use of HDD with Overwrite function
  - On screen display for user
  - Simple and Easy wire connection
  - Powered from the monitor to camera (no need extra power supply for CCTV camera)
- Stability
  - Semi-permanent LCD Monitor
  - System protection by password
- Economy
  - The same function of existing Stand Alone DVR with superior slim size
  - User friendly DIY (Do It Yourself) installation

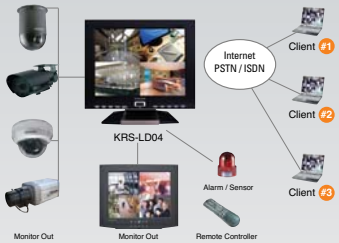
Specifications

Model.No : KRS-LD04		Description
LCD Monitor	Size / Resolution	15" LCD / 1,024 x 768 x RGB
	Pixel Pitch / Luminance	0.97mm x 0.97mm / 300cd/m2
	Contrast Ratio	300 / 1
Video Input Format		NTSC / PAL
Operating System / Mode		Embedded LINUX / Pentaplex
Compression		Modified MPEG 4
Video Input / Output Channel		4CH Composite (RJ45 cable) / 1CH Composite, 1CH VGA
Audio Input / Output Channel		4CH RCA (RJ45 cable) / 1CH RCA (ADPCM Compression)
Sensor input / Alarm output		4CH (RJ45 cable) / 1Port
Display Frame		NTSC : 120 fps, PAL 100 fps
Recording Frame Rate	NTSC	Max. 30fps per ch (1~123fps based on 360 x 240)
	PAL	Max. 25fps per ch (1 ~ 103fps based on 360 x 288)
Recording Quality		Low / Medium / High / Super
Recording Mode		Continuous, Manual, Event, Schedule
Resolution	Display	NTSC : 7 20 x 480, PAL : 720 x 576
	Recording	NTSC : 720 x 480, 720 x 240, 360 x 240, PAL : 720 x 576, 720 x 288, 360 x 288
HDD		250GB HDD (Standard)
Back-up		USB Memory Stick
Playback	Mode	Multi-channel playback, Simultaneous playback
	Searching	By Channel, Time, Date, Motion, Sensor event)
PTZ Control		RS485 (Pan/Tilt, Zoom, Focus, Iris, Preset, Pattern)
Network		LAN, DHCP, DDNS
Network Control		Remote Viewing, Playback, Control, Backup
Hardware Spec.	Temperature	+5 ~ +40°C (30~110F)
	Humidity	20 ~ 80% (Non-condensing)
	Size / Weight	380 (W) x 65 (D) x 370 (H) (mm) / 9kgs (including HDD)
	Power	DC 12V / 5A

Diagram



Diagram



Specifications

ITEM				KVR-0441LV
Video	Input	Channel, Input Level		4CH Composite, 1.0Vp-p, 75ohm
		Signal Format		NTSC/PAL
		Video Loss Check		Yes
	Output	Main Monitor Output		1 VGA (1280x1024 @ 60Hz),
		Signal Format		VGA
		Spot		1 (Event Only)
Audio	Input & Output			4 CH Line input & 1 CH Line output
	Audio Codec			G.711
Record	Compression			H.264
	Multi-operation			QUADPLEX (Playback/Record/Network/Backup)
	Resolution	NTSC	D1	120fps
			Half D1	120fps
			CIF	120fps
		PAL	D1	100fps
			Half D1	100fps
			CIF	100fps
	Recording quality grade			NETWORK, STANDARD, HIGH, SUPERIOR, ULTRA
	Recording Mode			Continuous / Schedule / Motion/ Manual
	Motion Detection			Motion detection setup by Grid
	Recording by channel's Resolution			Yes
	Pre Recording			1 fps for 10 seconds before an event
	Post Recording			10 seconds to 3 minutes after an event
Display	Frame Rate (/ Sec)			NTSC: 30fps/ch, 60 fields / PAL: 25fps/ch, 50 fields
Playback	Multi-Decoding			1, 4
	Playback Speed	Single channel		x 2, 4, 8, 16
		Multi-channels		x 2, 4
	Search Mode			Timeline, Event, Archive, Log
Storage	HDD	Interface Type		Serial ATA
		Capacity of 1 HDD		2TB
		Internal HDD No.		1
	File system			NaFS
	USB Port			2 (Front 1, Rear 1)
	Backup	USB Flash drive		Video & Still Image
		Network		Video & Still Image
User I/F	Menu Display			New GUI
	Input Method			Remote control, Mouse
Network	Dynamic DNS			Yes (Free DDNS)
	Network Interface			10/100 base-TX Ethernet (RJ-45)
	Dual Encoding for Network Streaming			CIF 60fps/50fps
Network Access	Web viewer (1:1)			Live, Search, Backup, Remote Setup
	Single-sites Monitoring System (1:1)			Live, Search, Backup, Remote Setup
	Multi-sites Monitoring System (1:n)			Live, Search, Backup, Remote Setup
Features	DLS (Day Light Saving)			Yes
	Internal Beep			By Motion, Video Loss, HDD error
	Multi-Language			Yes
	S/W Upgrade			USB Flash drive, Remote S/W Upgrade (TBD)
	NTP			Yes
	3G Mobile			Yes (Exclusive Viewer) (TBD)
	Watermark			Yes (TBD)
Power source	Power Supply Voltage			DC 12V 3A
Allowable operation temperature During operation				5℃ - 40℃, During storage : -10℃ - +50℃
Allowable operation humidity				0 - 90 %
Weight	Unit Weight (Gross weight)			1.5Kgs (3.0Kgs)
Dimension	Unit Dimension (W x H x D)			340mm x 262mm x 63mm

Picture View

DVR System
Digital Video Recorder

H.264 Standalone DVR

KRS-HR04 / 09 / 16

Function

- Triplex (Live Display, Recording, Network)
- H.264 Hardware compression (High Quality video)
- Embedded Linux Operating System
- Simultaneous Monitoring via Composite, VGA
- Backup and Firmware Update by USB drive
- Multiple Screen division
- Easy to Use and convinient GUI
- Fast operation by mouse and remote controller
- Network : DHCP & Static IP Supported
- Event Recording : Motion detection and sensor
- Network (Web browser View) Function

Specifications

Model No.	KRS-HR04	KRS-HR09	KRS-HR16
Operating System	Embedded Linux		
Compression	H.264 Hardware Codec		
Multiplexer Functionality	Triplex (Live, Record, Playback, Network at the same time)		
Recording Resolution	D1, Half D1, CIF		
Displaying Speed	PAL 100fps	PAL 225fps,	PAL 400fps,
	NTSC 120fps	NTSC 270fps	NTSC 480fps
Recording Speed	PAL 100fps,NTSC 120fps @ CIF Resolution		
Video Input/Loop Output	4 / 0 BNC	9 / 9	16 / 16
Video Output	2BNC Composite (Sport and Monitor). 1VGA		
Audio Input / Output(RCA cable)	1 line / 1 line	4 line / 1 line	
Sensor Input / Relay Output	4 line / 1 line	8 line / 4 line	16 line / 4 line
Display Mode	1/4 and sequential, PIP	1/4/9 and Sequential,PIP	1/4/9/16 and Sequential, PIP
Backup Media	USB Flash Drive, Network Backup	USB Flash Drive, DVD-R/W, Network Backup	
Storage Media	Max 1 HDD, Front 1USB	Max 3 HDD, Front 1USB	
Recording Mode Method	Motion detection and Sensor		
System Control	Mouse and Remote controller	Mouse, Remote Controller and Front Key Button	
Communication Port	RS-485	RS232C, RS485	
Network	LAN(Ethernet RJ-45, 10/100 base), DDNS, TCP-IP		
Dimension(mm)	320(W)x255(D)x60(H)	430(W)x440(D)x88(H)	
Weight	3Kg	7.5Kg	8Kg
Power	12V DC, 3.3A	AC 100V ~ 240V, 50/60Hz	
Operating Temperature	0°C~40°C		
Operating Humidity	10~80% RH		

Picture View

System Diagram

GUI View

H.264 Real-Time Recoding Pentaplex Standalone DVR

KRS-0412 / 0824 / 1648

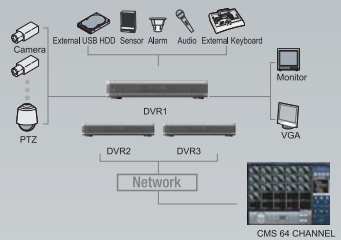
Function

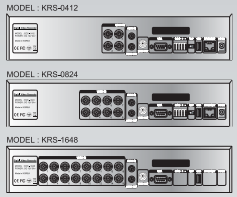
- Full Graphic User Interface (Multiple language support)
- Individual Channel Recording (Resolution, Frame rates and Quality)
- Easy Operation by USB mouse / Front Keys / Remote Control
- De-Interlacing feature in DVR Itself
- System Automatic-Rebooting by Itself for Watch-Dog
- 1 x SATA HDD Internal Bay
- Multiple VGA Resolution : 800 x 600, 1024 x 768, 1280 x 1024
- 2 Video Out (Composite, VGA)
- Backup via USB Memory Stick & Network CMS
- Real Pentaplex Operation
- Recording & Alarm-Out Scheduling
- Pre / Post / Extra-Alarm Recording
- Dual-Stream (Local Recording & Network Transmission)
- I.E Web-Browsing, CMS (DDNS and Multi Port support)
- 3G Mobile Phone Viewer

Specifications

Model No.		KRS-0412	KRS-0824	KRS-1648
Compression Algorithm		Video : H.264, Audio : G723		
HDD Bay		1 x SATA HDD		
Operating System		Embedded Linux		
Video	Input	4CH	8CH	16CH
	Loop-Out	X	X	X
Video Out	Monitor	1 x Composite & 1 x VGA		
	VGA Resolution	VGA Resolution : 800x600, 1024x768 & 1280x1024 (Selectable)		
Live Display Modes		1, 4 & PIP	1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP
Recording Speed (NTSC/PAL)	352x240/288(CIF)	120/100 fps	240/200 fps	480/400 fps
	720x240/288(2CIF)	120/100 fps	240/200 fps	240/200 fps
	720x480/576(D1)	120/100 fps	120/100 fps	120/100 fps
Recording Modes		Continuous, Scheduled, Sensor-Activated & Motion Detection Recording		
		Pre & Post Alarm Recording, Emergency Recording		
Playback & Backup	Speed	x1, x8, x32, x64, x128		
	Search	Intelli-Search by Time Bar, Calendar, Event and First / Last Search		
	Backup Device	USB Memory Stick & Network by CMS		
Audio Input / Output		1 In / 1 Out		
Sensor Input / Alarm Output		1 In / 1 Out		
Port		2 x USB, 1 x RS-485(PTZ)		
LAN		10/100 Base-Tx Ethernet (RJ45) - Static / DHCP / DDNS		
Network	Transmission	Video Dual-Stream (Local recording & Network Transmission)		
	C.M.S	Live Monitoring, Playback and Backup, PTZ Control, Local DVR Reboot		
	Web (IE)	Live Monitoring, Playback, Snapshot and PTZ Control		
Other Functions		Multi-Language, Firmware Upgrade by USB & Network Conguration Import & Export, Water-Mark, Alarm out for Video Loss & Events Email-Notication/Alarm-out/Buzzer for Events, Warning for System Over-Temp		
Power		DC12V, 3.3A		
Storage Temperature and Humidity		-20~60°C / 20~95% RH		
Operating Temperature and Humidity		5~40°C / 20~80% RH		
Dimension (WxDxH)		341 x 258 x 60, Packing : 374 x 383 x 126 (mm)		
Certication		CE, FCC, MIC & RoHS		

System Diagram





DVR System
Digital Video Recorder

H.264 Real-Time Recoding Pentaplex Standalone DVR

KMS-0412 / 0824 / 1648

Function

- Full Graphic User Interface (Multiple language support)
- Individual Channel Recording (Resolution, Frame rates and Quality)
- Easy Operation by USB mouse / Front Keys / Remote Control
- De-Interlacing feature in DVR Itself
- HDD Mirrioring & Automatic-Backup to USB HDD
- 2 x SATA HDD Internal Bay (2 x HDD & 1 x ODD)
- Multiple VGA Resolution : 800x600, 1024x768, 1280x1024
- 2 Video Out (Composite, VGA)
- Backup via DVD-RW, USB Memory Stick & USB HDD
- Real Pentaplex Operation
- Recording & Alarm-Out Scheduling
- Pre / Post / Extra-Alarm Recording
- Dual-Stream (Local Recording & Network Transmission)
- I.E Web-Browsing, CMS (DDNS and Multi Port support)
- 3G Mobile Phone Viewer

Specifications

Model No.		KMS-0412	KMS-0824	KMS-1648
Compression Algorithm		Video : H.264, Audio : G723		
HDD Bay		2 x SATA HDD (or 2 x SATA HDD & 1 x ODD), Max:2TB/HDD		
Operating System		Embedded Linux		
Video	Input	4CH	8CH	16CH
	Loop-Out	X	X	X
Video Out	Monitor	1 x Composite & 1 x VGA		
	VGA Resolution	VGA Resolution : 800x600, 1024x768 & 1280x1024 (Selectable)		
Live Display Modes		1, 4 & PIP	1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP
Recording Speed (NTSC/PAL)	352x240/288(CIF)	120/100 fps	240/200 fps	480/400 fps
	720x240/288(2CIF)	120/100 fps	240/200 fps	240/200 fps
	720x480/576(D1)	120/100 fps	120/100 fps	120/100 fps
Recording Modes		Continuous, Scheduled, Sensor-Activated & Motion Detection Recording		
		Pre & Post Alarm Recording, Emergency Recording		
Playback & Backup	Speed	x1, x8, x32, x64, x128		
	Search	Intelli-Search by Time Bar, Calendar, Event and First / Last Search		
	Backup Device	USB Memory Stick/HDD, DVD-RW & Network by CMS		
Audio Input / Output		4 In / 1 Out	8 In / 1 Out	8 In / 1 Out
Sensor Input / Alarm Output		4 In / 4 Out	8 In / 4 Out	16 In / 4 Out
Port		4 x USB, 2 x RS-485(PTZ), 1 x RS-232		
LAN		10/100 Base-Tx Ethernet (RJ45) - Static / DHCP / DDNS		
Network	Transmission	Video Dual-Stream (Local recording & Network Transmission)		
	C.M.S	Live Monitoring, Playback and Backup, PTZ Control, Local DVR Reboot		
	Web (IE)	Live Monitoring, Playback, Snapshot and PTZ Control		
Other Functions		Multi-Language, Firmware Upgrade by USB & Network		
		Conguration Import & Export, Water-Mark		
		Alarm out for Video Loss & Events, Email-Notication/Alarm-out/Buzzer for Events		
		HDD Mirroring & Automatic-Backup to USB HDD, Warning for System Over - Temp		
Power		DC12V, 5A		
Storage Temperature and Humidity		-20~60 ℃ / 20~95% RH		
Operating Temperature and Humidity		5~40 ℃/ 20~80% RH		
Dimension (WxDxH)		380 x 342 x 67 (mm)		
Certication		CE, FCC, MIC & RoHS		

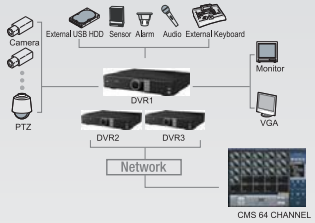
Picture View

MODEL : KMS-0412

MODEL : KMS-0824

MODEL : KMS-1648

System Diagram



H.264 Real-Time Recoding Pentaplex Standalone DVR

KHS-0824 / 1648

Function

- Full Graphic User Interface (Multiple language support)
- Individual Channel Recording (Resolution, Frame rates and Quality)
- Easy Operation by USB mouse / Front Keys / Remote Control
- De-Interlacing feature in DVR Itself
- System Automatic-Rebooting by Itself for Watch-Dog
- 4 x SATA HDD Internal Bay (3 x HDD & 1 x ODD)
- Multiple VGA Resolution : 800x600, 1024x768, 1280x1024
- Backup via DVD-RW, USB Memory Stick & USB HDD
- Recording & Alarm-Out Scheduling
- Pre / Post / Extra-Alarm Recording
- Real Pentaplex Operation
- Dual-Stream (Local Recording & Network Transmission)
- I.E Web-Browsing, CMS (DDNS and Multi Port support)
- Alert for System Over-Temperature
- 3G Mobile Phone Viewer

Specifications

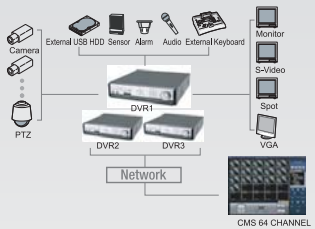
Model No.		KHS-0824	KHS-1648
Compression Algorithm		Video : H.264, Audio : G723	
HDD Bay		4 x SATA HDD or 3 x SATA HDD & 1 x ODD	
Operating System		Embedded Linux	
Video	Input	8CH	16CH
	Loop-Out	8CH	16CH
Video Out	Monitor	1 x Composite, 1 x VGA & 1 x Spot Monitor	
	VGA Resolution	VGA Resolution : 800 x 600, 1024 x 768 & 1280 x 1024 (Selectable)	
Live Display Modes		1, 4, 9 & PIP, POP	1, 4, 9, 16 & PIP, POP
Recording Speed (NTSC/PAL)	352x240/288(CIF)	240/200 fps	480/400 fps
	720x240/288(2CIF)	240/200 fps	480/400 fps
	720x480/576(D1)	240/200 fps	240/200 fps
Recording Modes		Continuous, Scheduled, Sensor-Activated & Motion Detection Recording	
		Pre & Post Alarm Recording, Emergency Recording	
Playback & Backup	Speed	x1, x8, x32, x64, x128	
	Search	Intelli-Search by Time Bar, Calendar, Event and First / Last Search	
	Backup Device	USB Memory Stick / HDD, DVD-RW & Network by CMS	
Audio Input / Output		8 In / 1 Out	16 In / 1 Out
Sensor Input / Alarm Output		8 In / 4 Out	16 In / 4 Out
Port		4 x USB, 2 x RS-485(PTZ), 1 x RS-232	
LAN		10/100 Base-Tx Ethernet (RJ45) - Static / DHCP / DDNS	
Network	Transmission	Video Dual-Stream (Local recording & Network Transmission)	
	C.M.S	Live Monitoring, Playback and Backup, PTZ Control, Local DVR Reboot	
	Web (IE)	Live Monitoring, Playback, Snapshot and PTZ Control	
Other Functions		Multi-Language, Firmware Upgrade by USB & Network	
		Conguration Import & Export, Water-Mark, Alarm out for Video Loss & Events	
		Email-Notication/Alarm-out/Buzzer for Events, Warning for System Over-Temp	
Power		DC12V, 6.67A	
Storage Temperature and Humidity		-20~60 ℃ / 20~95% RH	
Operating Temperature and Humidity		5~40 ℃/ 20~80% RH	
Packing Dimension (WxDxH)		430 x 90 x 428, Packing: 520 x 215 x 520 (mm)	
Certication		CE, FCC, MIC & RoHS	

Picture View

MODEL : KHS-0824

MODEL : KHS-1648

System Diagram



DVR System
Digital Video Recorder

High End Real Time Standalone DVR

KRS-SD2209 / SD4416

DVR System Controller

KJC-4000J

Function

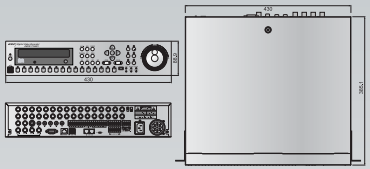
- MPEG4 Compression Technology
- Real-time Recording : 480FPS /16Ch [NTSC], 400FPS / 16Ch [PAL], 270FPS / 9Ch(NTSC), 225FPS / 9Ch(PAL)
- Graphic User Interface (GUI)
- Mouse Control
- Built-in Matrix (4CH)
- Pentaplex Function [Simultaneous Live, Recording, Playback, Back-up, Network]
- Each Channel with Individual Quality, Frame Rate, Resolution and Record Schedule
- Live & Playback Dual Play
- Hidden Cameras: View All or Selected Cameras without Affecting Recording
- Various Search Modes [Time, Date, Channel, Event, History, Panorama]
- Various Back-Up Devices [Built-in DVD-RW, USB HDD, USB CD-RW, USB DVD-RW, USB Memory Stick]
- Various Video Outputs [Composite, S-Video, VGA]
- Various PTZ Protocol Support
- 3 HDD Internal Storage [Max. 3TB]
- Firmware Upgrade through Network/USB
- Conversion to AVI Format from Backup Data

Specifications

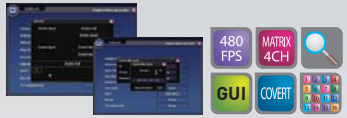
Model No.			KRS-SD2209	KRS-SD4416
System			Embedded Linux	
Display	Mode		Single, Multi, Sequence, PIP	
	OSD		Graphic User Interface (GUI)	
Recording	Mode		Schedule, Motion Detection, Sensor	
	Resolution	NTSC	720x480 [120FPS]	720x480 [120FPS]
			720x240 [240FPS]	720x240 [240FPS]
			360x240 [270FPS]	360x240 [480FPS]
		PAL	720x576 [100FPS]	720x576 [100FPS]
			720x288 [200FPS]	720x288 [200FPS]
			360x288 [225FPS]	360x288 [225FPS]
	Compression		MPEG4	
Playback			Time, Date, Channel, Event, History, Calendar, Panorama	
Video	Input		9 Composite	16 Composite
			1Vp-p, 75ohm	1Vp-p, 75ohm
	Loop Output		9 Composite	16 Composite
			1Vp-p, 75ohm	1Vp-p, 75ohm
	Monitor Output		1 Composite / 1 S-Video / 1 VGA / 4 Composite: Built-in Matrix	
			1 Composite: Live Spot	
Audio	Input		4 RCA	
	Output		1 RCA	
Alarm	Input		9 PointNC/NO Programmable	16 Point NC/NO Programmable
	Output		4 Point, NC/NO Selectable	
Storage	HDD (1TB)		3PCS (3TB)	
	USB 2.0		4Port (Front:2, Rear:2)	
	DVD-RW		Built-in	
Control	Device		Mouse, Front Button, Remote Controller, Network	
	PTZ Camera		Available	
	Digital Zoom		Available	
	Password		3 Level (Supervisor, Manager, User)	
Network	Media		TCP/IP, RJ-45	
	Speed		10/100 Mbps	
	View		CMS, RMS, Web Browser	
Serial			RS- 485, RS-422	
Dimension [mm]			430(W) x 385.1(D) x 88.9(H)	
Weight			8 kg	
Operating Temperature			32°F~104°F (0°C~40°C)	
Operating Humidity			up to 90% RH	
Power			100 to 240VAC, 0.5A, 60/50Hz	

Picture View

Dimensions



GUI View



Motion Close Up

View a specific area of a specific channel that enables motion detection by using the PTZ that inter-works with the DVR

(1) Original View from Reference Camera
(2) Diagnostic View from Close View
(3) Close-up View from PTZ

Function

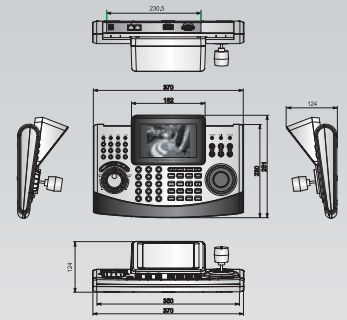
- Simple and Easy Installation
- Camera / DVR / Monitor Control
- 3-Axis Joy Stick
- RS-485/422 Communicaton [Max. 1.2km]
- Multi-Protocol Support [Cyber Scan I, Cyber Scan II, P-D, P-P, etc]
- Easy Extension up to 6 Slave Controller
- DC12V Power Source

Picture View

Specifications

Model No.	KJC-4000J
Screen	5 TFT LCD Monitor
Jog Shuttle	Built-In
Controls	3 Axis Joy Stick Built-In
Video Input	BNC / RJ-45 x 1
Pan/Tilt	Pan : Left/Right, Tilt : Up / Down
Key Features	Zoom In/Out, Focus Near / Far, IRIS Open / Close, DVR / Matrix /
	Cyber Scan Dome control, Slave Controller Extendable
Multi-Protocol	Cyber Scan (I,II) / P-D / P-P / S-Dome
Connection	RJ-45 Connection via Junction Box or Matrix/DVR
Communication	RS-485 or RS-422
Communication Speed	Baud Rate : 9600bps (OPT : 38400, 4800, 2400)
Operating Distance	1.2Km
PTZ/DVR/MON Control No	999 / 255 / 120
Power	12VDC 1A
Port	RJ-45 X 2 (In, Out), RS-232 X 1
Material	ABS
Temperature	0~50°C (32~122°ΔF)
Humidity	0~95% RH Non-condensing
Dimension	370(W) X 251(D) X 124(H)
Weight	1,600g

Dimensions



DVR System
Digital Video Recorder

Video Matrix System

KMAX-7160 / 7320

Video Distribution Amplifier (VDA)

KVDA-7160

Function

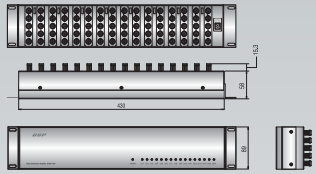
- External Alarm Device Available
- Direct Connection with System Controller, DVR, VDA, etc.
- Easy Extension using RJ-45 Cable
- RS-485/422 PTZ Connection
- Equal Video Strength for All Outputs
- BOD[Brown-out Detector]
- WDT[Watchdog Timer Reset Function]
- Color and B&W Compatible
- NTSC or PAL Selectable
- 19" Rack Size
- Power Supply Unit is included(DC12V/3A)

Specifications

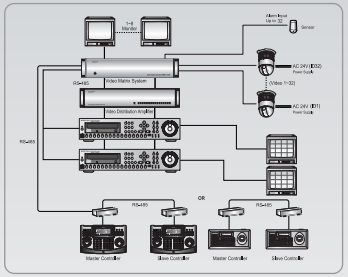
Model No.	KMAX-7160	KMAX-7320
Video Input	16 Ch	32 Ch
Video Loop Out	16 Ch	32 Ch
Monitor Out	4	8
Alarm Input	16	32
Weight	2,200g	3600g
Dimension [mm]	430(W) x 181.2(D) x 44.5(H)	430(W) x 181.2(D) x 89(H)
	1.75"(1U) of 19" Rack Size	3.5"(2U) of 19" Rack Size
Input	Composite Video 1.0Vp-p	
Output	Composite Video 1.0Vp-p	
Impedance	75ohm, Input and Output	
Bandwidth	40 MHz	
S/N Ratio	-70dB RMS typical	
Crosstalk	-60dB typical	
Gain(Into a 75ohm load)	2	
Differential Gain	0.5% typical	
Differential Phase	0.5 degree typical	
Video	BNC Connector	
Power	DC12V, 3A	
Material	Steel	

Picture View

Dimensions



System Diagram



Function

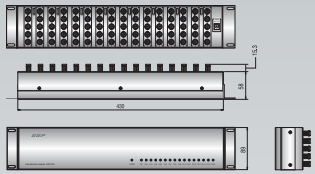
- Multi Type Input/Output Groups
- Equal Video Strength for All Outputs
- Unused Outputs are Self-terminating
- Color and B&W Compatible
- NTSC and PAL Compatible
- 19" Rack Size
- Power Supply Unit is included (12VDC/3A)
- LED Indicator for Power & Video Input

Specifications

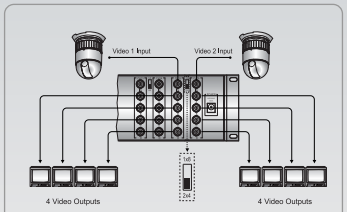
Model No.		KVDA-7160	
Input		16 x Composite Video 1.0Vp-p	
Output		64 x Composite Video 1.0Vp-p	
Combination	Input	1	1
	Output	4	8
	Group	16	8
Impedance		75ohm, Input and Output	
Bandwidth		40MHz	
S/N Ratio		-70dB RMS typical	
Crosstalk		-60dB typical	
Gain(Into a 75ohm load)		2	
Differential Gain		0.5% typical	
Differential Phase		0.5 degree typical	
Video		BNC Connector	
Power		DC12V, 2A	
Material		Steel	
Dimension(mm)		430(W) x 73.3(D) x 89(H)	
Weight		2,400g	

Picture View

Dimensions



System Diagram



2-Input×4-Output

DVR System
Digital Video Recorder

Command Distributor
KCD-800

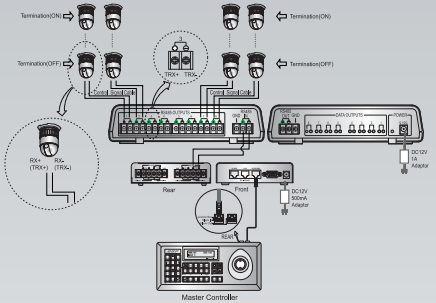
Command Distributor works as a distribution repeater and extends single telemetry to 8 isolated and buffered telemetry through each port (RS-485). In case of isolated RS-485 telemetry, command distributor can send signals 1.2km away (It depends on physical parameters of connection). Each output port can drive up to 32 devices.

Function

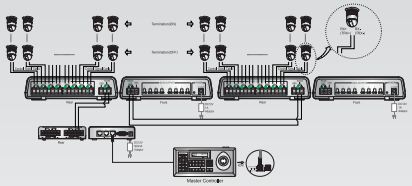
- Distribute RS-485 Data Signal
- 1 Input x 8 Outputs
- Each Output Port drives up to 32 Devices
- LED Indicator for Power, Output and Error Detection
- Bidirectional Communicationvailable in 12inch lengths

System Diagram

• Basic Configuration of Command Distributor

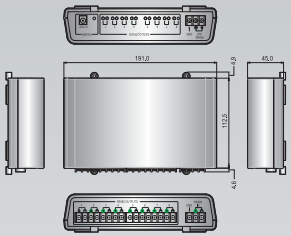


• Multi Configuration of Command Distributor



Picture View

Dimensions

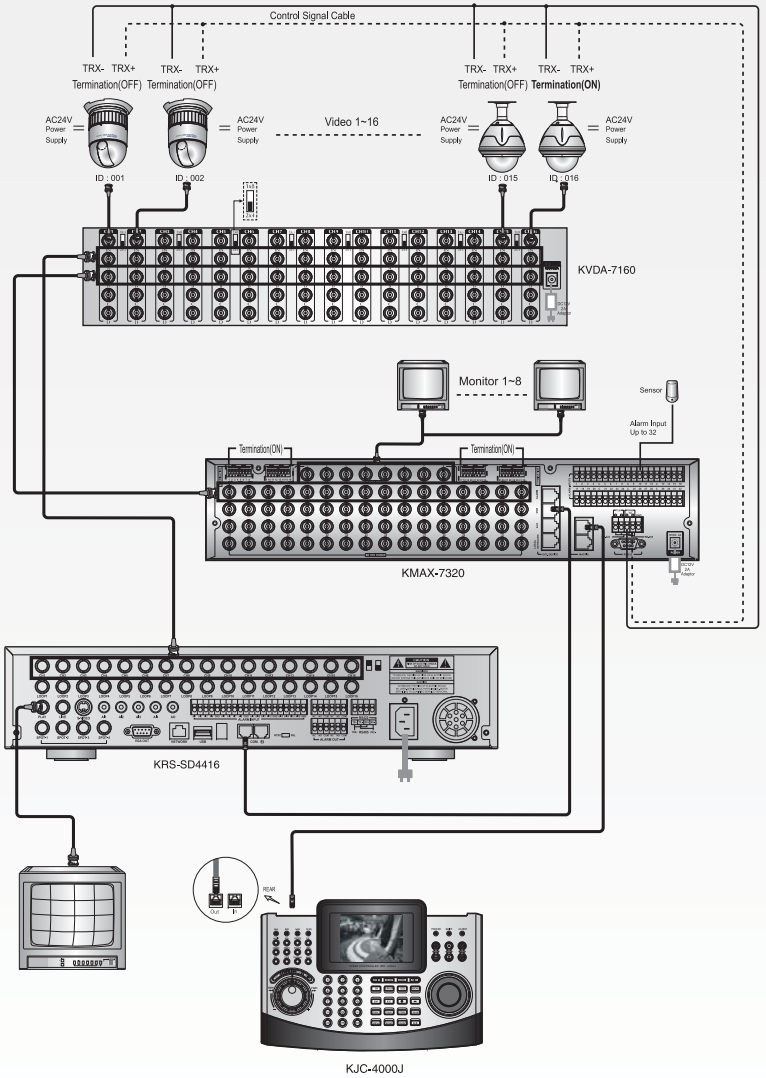


Specifications

Model No;	**KCD-800**
Data Input Port	1, 3-Position Screw-Terminal
Data Output Port	1, 3-Position Screw-Terminal
Drive Lines	8, 2-Position Screw-Terminal
Communication	RS-485 (2 Wire)
Indicator	1, Power LED (Red)
	8, Data LED (Operation: Green)
	8, Status LED (Line Error: Red)
Power	DC 12V, 1A
Material	Plastic, Metal
Color	Black
Dimension [mm]	191(W) x 122(D) x 45(H)
Weight	400g

System Configuration

Controller >>> Matrix >>> DVR >>> VDA >>> Camera



DVR System
PC-based Digital Video Recorder

PC-based Digital Video Recorder
KRS-Series

Function

- **Hardware MPEG-4 compression** with resolution up to 704 x 480 (NTSC) / 704 x 576 (PAL)
- Quadruple operation : Recording, Live, Playback (1CH Search) & Remote viewing
- Three full real time : Recording / Live display / Play back (up to 30/25 fps) per channel
- Synchronized video and audio.
- File conversion into AVI without frame loss
- Non-editable video / audio data by watermark in all streaming and back up contents
- Motion detection with programmable area sensitivity for each camera.
- Alarm history log for Video loss, Motion, Alarm, etc.
- Pre-recording time : up to 10 seconds. (Max 96 Frame/Sec)
- Sophisticated PTZ control function, including Pan, Auto pan, Tilt, Zoom, Focus, Speed, Preset locations, Sequence, etc.
- Supports most popular PTZ protocol and ability to customize new PTZ protocol
- Supports mirroring HDD function.
- Optional SCSI for additional back up devices
- Supports network access storage (NAS)
- Network transmission speed up to 480 fps in 16 channels
- Support narrow-band transmission (PSTN, etc.)
- Remote alarm notification via e-mail, dial-out, etc.
- Web browser as IE can be used to access Net DVR
- Multi-level password to ensure high degree of security
- Multi-lingual support
- SDK and DEMO software source code can be provided to reduce application development time (Active X Only)
- Stackable capture board, supports up to 32 channel
- Easy to integrate with Access Control by supporting Active X type of SDK
- Integration with up to 16 POS system and easy to install accessories
- Record by selected transactions and query by item, condition or value in POS integration

Picture View

Two-way Voice Communication
Support voice talk between host in surveillance center and net DVR.

Robust Network

Network Transmission Speed Up to 480fps

Client image

Search screen

Network Setting Window, When you use "DNS"

Remote Surveillance via Web Browser

Remote management through CTMS (Up to 100 DVR)

Remote Monitoring, Playback & Set up by Client program
Max 20 user access at same time.

Powerful Network

Mirroring HDD function for archiving Data safely

Thumbnail image

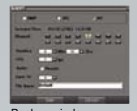
Search screen

Video map search

Real Time Multi Search & Video map, Manual and Calendar Search
- Play back 16 CH streaming without any overload of CPU.
- Search by event graphic, calendar and 1/100 second.
- Easy check up 1 hour event by thumbnail image.

Simultaneous Recording, Backup, Search & Transmission

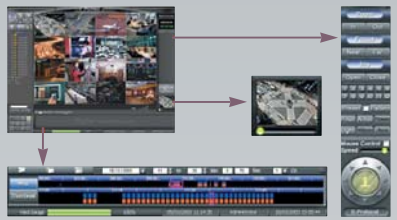
Backup full screen



Backup window

Detail search by panorama

Two-way Voice Communication
Support voice talk between host in surveillance center and net DVR.



Hidden Camera According to User grade.

User Friendly Interface
- Digital 3x zoom on surveillance & search mode
- Tool bar screen and Pan / Tilt / Zoom interface

Smart search screen

Museum search screen

1 CH search screen

Smart Search and 1 CH Simultaneous Search while Recording & Monitoring

Specifications

Model no.		KRS-P2432	KRS-P4116	KRS-P4216	KRS-P4416	KRS-HP2432	KRS-HP4116	KRS-HP4216	KRS-HP4416
CPU / RAM		Intel E2160 or E2180 / DDR 2 1GB / INTEL Chipset				Intel Quad to Core E7300 / DDR2 2GB / Intel Chipset			
HDD / VGA Memory		SATA2 250GB / ATI HD 2400 pro 256M				SATA 2 500GB / ATI HD 2400 PRO 256M			
LAN Cards		10/100 Mbps							
Mouse		PS/2 Type							
Key Board		109 Mini Keyboard							
Case		19" Rack mount Type (Industrial 4U)							
O/S		MS Windows XP (Home DSP ENG)							
Camera Input		32 Port		16 Port		32 port		16 port	
Audio Input		16 Port							
Max.Display Speed (30fps/ch)		240 fps		480 fps		240 fps		480 fps	
Max.Recording Speed (CIF Basis)		240 fps	120 fps	240 fps	480 fps	240 fps	120 fps	240 fps	480 fps
Split Screen Mode		"1, 4, 9, 1+7, 1+12, 2+8, 3+4,16"							
Monitor Output	PC	1 Port							
	Analog	2 Port							
Sensor In / Alarm Out		8 / 4Port	8 Port			8 / 4 port	8 port		
HDD Storage		Default : 250 GB (Max. 500 GB) Max. 5 HDDs				Default : 500 GB Max. 5 HDDs			
Resolution	NTSC	720 x 480, 720 x 240, 360 x 240							
	PAL	640 x 576, 640 x 288, 320 x 288							
Compression		MPEG-4 / M-JPEG							
Backup Device		Printer, USB, DVD-RW							
Backup File		DVR file (with Backup Viewer Software) / JPG / BMP / AVI							
Recording Mode		Continuous, Motion, Sensor, Audio Detection, Pre & Post-Alarm (Event), Schedule (Camera/Date/Time)							
Remote Control		LAN, ISDN, TCP/IP, PSTN, ADSL							
Software		Client, Backup Viewer, Watermark Viewer, CTMS (Option)							
System Recovery		Watch-Dog(H/W), DVR Doctor(S/W)							
Pan / Tilt / Zoom		RS-485, RS-232							
Remote Monitoring		Monitoring, Search, Pan & Tilt Control							
Power Source		AC 90V / 240V (HEX 420W)							
Dimension(mm)		432(W) x 457(D) x 178(H)							
Weight (Approx.)		18kg							

DVR BOARD SERIES

Function

- Can accepts up to 16 cameras (32 cameras when using two 16ch boards)
- Display speed at max. 480fps / Recording speed at max. 480fps
- High compression algorithm (Appx. 3k byte per frame on average when adopting Mpeg4) maximizing storage capability and creating less network disruption (convertible between Mjpeg and Mpeg4)
- High resolution recording at 640x480
- Max. 16ch audio recording (Optional)
- High-quality, noise-reduced, which never lose their original quality or degrade over time
- Various alert modes, which are to be triggered by various events
- Allow remote access via client software and web browser.
- Pan/Tilt/Zoom control on both local DVR or remote client
- Dynamic IP support

Specifications

Models	KDB-030030-4CH	KDB-120120-4CH	KDB-120120-8CH	KDB-240240-8CH	KDB-120120-16CH	KDB-240240-16CH	KDB-480120-16CH	KDB-480240-16CH	KDB-480480-16CH	KDB-240240-32CH
Display speed	30fps	120fps	120fps	240fps	120fps	240fps	480fps	480fps	480fps	240fps
Recording speed	30fps	120fps	120fps	240fps	120fps	240fps	120fps	240fps	480fps	240fps
Camera input	4	4	8	8	16	16	16	16	16	32
Audio recording	2	2	2	2	2	2	2	2	16	16
Alarm output (Option)	8	8	8	8	8	8	8	8	8	8
Sensor input (Option)	4	4	4	4	4	4	4	4	4	4
Screen division	1 / 4 / 6 / 7 / 9 / 10 / 13 / 16 / 25 / 36 Split									
Resolution	640 x 480 / 320 x 240 / 240 x 180 / 160 x 120									
Compression codec	Mpeg4 / Mjpeg (Selectable per channel)									
Network	LAN / PSTN / ISDN / ADSL									
O/S	Windows 2000 and XP									

[KDB-030030-4CH]

- 4ch BNC Camera Input
- Display 30fps
- Recording 30fps
- 2-ch Audio Support

[KDB-120120-4CH]

- 4ch BNC Camera Input
- Display 120fps
- Recording 120fps
- 2-ch Audio Support

[KDB-120120-8CH]

- 8ch BNC Camera Input
- Display 120fps
- Recording 120fps
- 2-ch Audio Support

[KDB-240240-8CH]

- 8ch BNC Camera Input
- Display 240fps
- Recording 240fps
- 2-ch Audio Support

[KDB-120120-16CH]

- 16ch BNC Camera Input
- Display120fps
- Recording 120fps
- 2-ch Audio Support

[KDB-240240-16CH]

- 16ch BNC Camera Input
- Display 240fps
- Recording 240fps
- 2-ch Audio Support

[KDB-480120-16CH]

- 16ch BNC Camera Input
- Display 480fps
- Recording 120fps
- 2-ch Audio Support

[KDB-480240-16CH]

- 16ch BNC Camera Input
- Display 480fps
- Recording 240fps
- 2-ch Audio Support

[KDB-480480-16CH]

- 16ch BNC Camera Input
- Display 480fps
- Recording 480fps
- 16-ch Audio Support

[KDB-240240-32CH]

- 32ch BNC Camera Input
- Display 240fps
- Recording 240fps
- 16-ch Audio Support

[DI/O 0804]

- Sensor Input : 8ea
- Alarm Output : 4ea
- Interface : RS422/RS485

Function

- Car Black Box / Mini DVR / UCC Cam / MP4 Player
- CCTV field monitor (Easy chekcing of CCTV Camera Image and Audio in installation)
- Miniature MPEG4 DVR / Low Power Consumption
- Easy set up for user
- DC 5V for Adapter power or 3.7V for Li-ion Battery
- 1.8 inch TFT LCD
- Recording file format for mobile image : MP4
- Replay the files which are recorder by mobile phone.
- VGA 640X480 / QVGA 320X240
- Motion Record
- Provide port for connection :
  - SD Memory slot
  - Video In / Out
  - Audio out
  - 5V DC Power Input jac
  - 12V DC Power Output jac
- Folder on day-to day (Easy to search the file)
- Record 3/5/10/15/20min
- Hi-quality Microphone(on/off, Maximum 10m Voice Recognition) built-in
- Overwrite Function : save after delete the oldest file
- 8GB-based Maximum 10days continuous recording function(with QVGA minimal spec)
- Record 4 hours on 1hour charge
- CAR MODE setup : Auto-start video recording immediately upon starting engine
- External CCTV camera connection (powered from the Minicam)
- The model comes with a 300,000-pixels built-in CMOS camera
- Standard package : Minicam, Adapter, 2GB SD card, Earphone, Battery, Video cable, Manual

Specifications

Item		DESCRIPTION		
In / Out		VIDEO IN	NTSC / PAL COMPOSITE (1.0 Vpp)	
		VIDEO OUT		
		MIC IN	BUILT IN MIC	
		AUDIO OUT	STEREO JACK	
Preview	Resolution	LCD DISPLAY 160x128		
	Frame Rate	30fps		
Record	Resolution	BUILTIN CMOS SENSOR	VGA(640x480), QVGA(320x240)	
		EXTERNAL VIDEO IN	NTSC	VGA(704x480), QVGA(352x240)
			PAL	VGA(704x576), QVGA(352x288)
	Frame rate	(NTSC)1, 3, 6, 10, 15, 30fps / (PAL) 1, 3, 6, 8, 12, 25fps		
	Compression	MPEG4, H.264		
	Image Quality	Low, Normal, High		
	Audio Compression	AAC (44.1Khz, 16bit, 32Kpbs), AMR(8Khz, 16bit, 32Kbps)		
Play Back		Normal, Skip		
O/S		RTOS		
File System		FAT32 File System		
Storage		SD CARD MAX 16Gbyte		
Dimension		93(W) x 52(D) x 18(H) mm		
Weight (net)		80g		
Temperature		+0 °C ~ +50 °C		
Power		DC 5V 1A or 3.7V Li-ion Battery / Outter camera DC 12V		
Mode		Car Mode / Cam Mode		
View Angle		Horizontal Angle 60° / Vertical Angle 60°		

DVR System
Car Black Box - Mini DVR

Car Black Box - Mini DVR
KDR-5000W

All in One H.264 Varifocal Dome Camera DVR
KCD-SD01

Function

- Store at all times : Images in front and rear directions are continuously recorded as long as electric power is inputted.
- Event store : If you have a sense of shock set, or when you click the Save button on the video that three minutes later, this event will go to the folder.
- Store to monitor parking : Always connect the power before and after the operation is detected automatically each 15 seconds (30 seconds) is recorded. Parking mode after 5 days after the power is Off. Regular supply of vehicles is less than the 10.5V power is Off
- Backup store : Last file can be recorded by internal backup function even though electric power is disconnected.
- Image output : Images are shown in real time during installation and operation by VIDEO OUT function
- Play images : Images can be played on navigation with moving picture function. (But, some navigation may not be compatible.)
- Exclusive viewer : Amount of impact, speed, location, etc. at the time of accident can be analyzed through exclusive viewer in computer. And they can be viewed in the general image replay program through conversion mode.
- Drive record store : Date/time/driving distance during driving are recorded, driven route can be traced through viewer.

Specifications

Power	DC12V ~ DC24V
Power Consumption	Max. 4W
Camera	Color C-MOS Camera, 110 Degree
Recording Frame	10, 16, 24, 30 / Sec
Memory Pixel	640 x 480 Pixel
Audio	Included Mic
Rec. Memory Card	From SDHC 2 GB to 32GB
Size	102 x 53 x 29 mm
Operating Temperature	-20˚C ~ 70˚C
Custody Temperature	-40˚C ~ 85˚C
Viewer OS	Windows XP / Windows Vista
Viewer Monitor	More than 960 x 820

Picture View

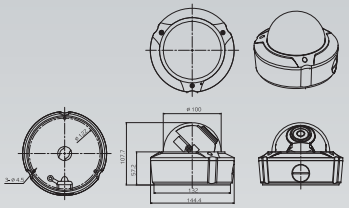
GUI View

Specifications

ITEM VIDEO	DESCRIPTION			
Encoding	H.264			
Input / Output Channel	1 Ch.			
Input / Output impedance	75 ohm Unbalanced			
Input / Output Format	PAL/NTSC (Auto Detection), Composite, Auto detection function			
Maximum Input / Output	1.0Vp-p @ 75 Ohm Unbalanced			
RECORDING				
Video Recording Resolution	Format	PAL	NTSC	
	4CIF	704x576	704x480	
	2CIF	704x288	704x240	
	CIF	352x288	352x240	
Video Recording Quality	Format	High	Normal	Low
	4CIF	1800Kbps	1000Kbps	500Kbps
	2CIF	1200Kbps	800Kbps	400Kbps
	CIF	1000Kbps	600Kbps	300Kbps
Video Recording Frame Rate	PAL	25, 12, 8, 6, 3, 1 fps		
	NTSC	30, 15, 10, 6, 3, 1 fps		
Recording Mode	Emergency / Schedule / Alarm / Motion Detection			
Decoding Video Format	As recorded Quality & Frame Rate			
Pre-recording Time	10sec(by Video Quality Setup)			
Storage	Support SDHC (32GB max.)			
Storage File System	FAT32 (recommended)			
Maximum Recording File	2,000 files /Storage Device			
AUDIO				
Compression Format	16bit PCM, 8KHz			
Input / Output Channel	1 Ch. Mono			
Input impedance	> 4.7Kohm, Unbalanced			
Maximum Input / Output	6 mVp-p @600ohm / 13mW@RL =16ohm, Unbalanced			
Alarm				
Input / Output	1 Ch. TTL(Internal full-up) / 1 Ch. TTL(Open collector)			
OPERATING MODE				
Searching Method	Time / Event			
Operating Mode	Live / Playback /Menu			
OTHERS				
Storage	Support SD, SDHC (32GB max.)			
Power consumption	Approx. 150mA @ 12VDC			
Operating Temperature	-10 ~ +50˚C			
Humidity	30 ~ 80 %RH (non-condensing)			
Dimension	100pie, 145x107.7mm			
Weight	Approx. 1,200g			
Remote Control	O			

Picture View

Dimensions



IP Camera

Mega Pixel IP Camera

2.0 Megapixel Dual Streaming 10X Zoom IP Camera

KCC-MIP20

• **Angle of View**

	Wide	Tele
Diagonal	59.3 °	6.4 °
Horizontal	48.4 °	5.1 °
Vertical	36.8 °	3.8 °

Function

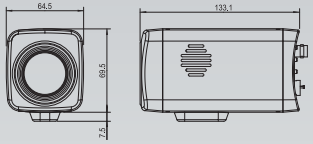
- H.264/MJPEG compression
- 2 .0 Magapixel1/2.5" CMOS Image sensor
- Max full HD (1920x1080 30p) video with progressive scan
- High sensitivity JPEG image capture function 10/100M Ethernet network interface
- Sensor input terminals
- Alarm output terminals 1 channel audio in/out (mono, line in/out)
- 1 channel audio in/out (mono, line in/out)
- Serial data bandwidth : 2,400bps ~ 115,200bps
- Intelligent bitratecontrol
- RS485 terminals
- Video bitrate: 32kbps ~ 8Mbps
- Serial data bandwidth : 2,400bps ~ 115,200bps
- Intelligent bitratecontrol
- Protocols : TCP/IP, Multicast, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS , RTP, RTSP
- Web-based viewer (Internet Explorer)
- True CMS : Upto36 chnnelslive monitoring, recording, search & playback
- Live video HDMI interface, SD card interface forstorage, RS485 terminals
- 10X Optical Zoom

Picture View

Specifications

Signal		Specification	Description
System	Operation System	Embedded Linux	-
	Main Memory	128Mbyte	-
	Flash	128Mbyte NAND FLASH	-
Video	Algorithm	H.264/JPEG Encoding / Decoding	
	Image	1/2.5" CMOS Image sensor	
	Lens	1/3.6", f=4.5~45.0mmm F1.8~2.2	10X Optical Zoom
	Output	1 x HDMI type A, HDMI TX	
	Resolution	1920x1080/30p ~ CIF/30fps	18 resolution steps
	Bitrate	32kbps ~ 8Mbps	
Audio	Algorithm	G.711	
	Input	1 x 3.5mm JACK, LINE IN	Single Mono
	Output	1 x 3.5mm JACK, LINE OUT	Single Mono
	Sample Rate	8 kHz	
	Bitrate	64 kHz	
Alarm/Sensor	Sensor Input	1 x Input (2 x Terminals)	Default NO, 1 x Sensor In, 1 x GND
	Alarm Output	1 x Output (2 x Terminals)	Default NO, 1 x NO, 1 x COM
Network	RS422/485	1 x Port (2 x Terminals)	Camera PTZ Control
	LAN	1 x RJ45, 10/100M Ethernet	
Storage	External Backup	1 x SD Interface	
Security		Supported	
Event	Motion detection	Supported	
	Sensor	Supported	
Pre/post alarm		Supported	
Notify		Alarm / E-mail	
Network		TCP/IP, Multicast, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP	
Power	Input	2.5 ø Power Jack, 12V/0.5A	
	External Power Adapter	Output :12V/1.5A, Input : AC100V~220V	-
General		2x System Status LED	
		1 x Default Setting Button	-
		WxDxH= 64x136x70	

Dimensions



Monitoring simultaneously upto 36ch

KCC-MIP13

1.3 Megapixel Dual Streaming IP Camera

Function

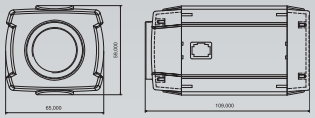
- H.264/JPEG compression Algorithm
- 1/3" 1.3M SONY Progressive CCD Image Sensor
- Video bitrate: 32kbps ~ 8Mbps
- Serial data bandwidth : 2,400bps ~ 115,200bps
- Protocols : TCP/IP, Multicast, HTTP, SMTP,FTP, DHCP, DNS, Dynamic DNS , RTP, RTSP
- WDR (Wide Dynamic Range) Supported
- Web-based viewer (Internet Explorer)
- CMS : Upto36 channels live monitoring,recording, search & playback
- Motion Detection
- Sensor input terminals
- Alarm output terminals
- 1 channel audio in/out (mono, line in/out)
- Serial data bandwidth : 2,400bps ~ 115,200bps
- Intelligent bitratecontrol
- RS485 terminals

Picture View

Specifications

Section		Specification	Description
System	Operation System	Embedded Linux	
	Main Memory	128Mbyte DDR2	
	Flash	128Mbyte NAND FLASH	
Video	Algorithm	H.264/MJPEG	
	Image	1/3" 1.3M CCD Image Sensor	SONY
	Resolution	1280x720/23p ~ CIF/30fps	11 resolution steps
	Bitrate	32kbps ~ 8Mbps	
Audio	Algorithm	G.711	
	Input	1 x 3.5mm JACK, LINE IN	Single Mono
	Output	1 x 3.5mm JACK, LINE OUT	Single Mono
	Sample Rate	8kHz	-
	Bitrate	64kbps-	-
Alarm/Sensor	Sensor Input	1 x Input	Default NO, 1 x Sensor In, 1 x GND
	Alarm Output	1 x Output	Default NO, 1 x NO, 1 x COM
Network	RS485	1 x Port	Camera PTZ Control
	LAN	1 x RJ45, 10/100M Ethernet	-
Security		Supported	-
Event	Motion detection	Supported	
	Sensor	Supported	
Pre/post alarm		Supported	
Notify		Alarm / E-mail	
Network		TCP/IP, Multicast, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP	
Power	Input	2 x Terminal Block, DC12V/0.6A	
	PoE	- 802.3af	
General		2x System Status LED	
		1 x Default Setting Button	

Dimensions



IP Camera

Mega Pixel IP Camera

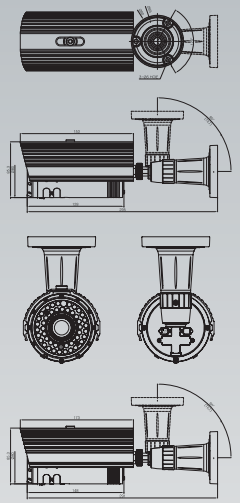
1.3 Megapixel Dual Streaming IR Bullet IP Camera

KCC-MIP531BIR

Function

- 1.3 Megapixel 1/3" Sony Progressive CCD
- Up to 30 fps at 1280 x 720 (22.5fps at 1280 x 960)
- Dual Streaming (H.264/H.264, H.264/MJPEG)
- 44 IR LEDs
- Composite Video Output
- True Day & Night (ICR)
- PoE (Power Over Ethernet) - Option
- f=3.6mm~16mm , F1.2 DC Auto Iris Lens
- DC Iris Lens Control
- Motion Detection
- Two Way Audio Communication (G.711/AAC)
- Adjustable Video Bit Rate : 32kbps ~ 8Mbps
- Adjustable Video Data Bandwidth : 2,400bps ~ 115,200bps
- 1 C 1 CH. Sensor Input & Alarm Output
- 1 C 1 CH. Audio In/Out (Mono, Line-In/Out)
- Various Protocols : TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- Full Technical Support with SDK & API

Dimensions



Specifications

Section		Specification
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
	Image Device	1/3" Sony CCD Progressive Scan
	Lens	DC Auto Iris, f=3.6mm~16mm , F1.2 , IR Cut Filter Removable
Camera	IR	850nm, 44 IR LEDs
	Slow Shutter	On / Off
	MIN. Illuminance	Color: 1.5Lux (Slow frame: 0.4Lux), B/W : 0Lux (IR LED ON)
	MAX. Slow Frame	0~8 FPS Selectable
	Shutter Speed (auto)	1/30 ~ 1/100,000 sec
	Shutter Speed (Manual)	1/30, 1/50, 1/100, 1/250, 1/350, 1/500, 1/1000, 1/2000 sec Selectable
	Backlight Function	On / Off
	Brightness	Adjustable
	MAX. AGC Gain	Adjustable
	Digital Day & Night	On / Off
	Night->Day Transition	Adjustable
	Day->Night Transition	Adjustable
	DC Iris Lens Control Volume	Adjustable
	AWB Mode	ATW Mode / PUSH Mode / Manual Mode
	R Gain	Adjustable
	B Gain	Adjustable
	Algorithm	Primary : H.264 Secondary : H.264 / M-JPEG
Video	Resolution	1280x960 ~ 352x240, 13 resolution steps
	Max Frame Rate	H.264/MJPEG : 22.5fps @ 1280x960, 30fps @ 1280x720 ~ 352x240
	Bit Rate	32K bps ~ 8M bps
	Output	1 x Composite (1 Vpp 75ohm, pitch 2mm connector)
Audio	Algorithm	G.711, AAC
	Sample Rate	G.711 : 8KHz / AAC : 32KHz
	Bit Rate	G.711 : 64Kbps /AAC : 64Kbps, 128Kbps, 196Kbps
	Input	Line-In (Single Mon) : RCA Female cable
	Output	Line-Out (Single Mono) : RCA Female cable
Serial Port	Baud Rate	2,400 bps ~ 115,200 bps
	Port	RS485 : Terminal block cable
Sensor / Alarm	Sensor Input	1 x NO Contact
	Alarm Output	1 x NO Contact
Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
Other	Power	DC 12V, 0.5A(IR LED ON : 0.85A), Power jack cable, (PoE:Option)
	Dimension	ø80 x 285(L) [mm]
	weight	1,300g
	Operation Temperature	-10℃ ~ 50℃

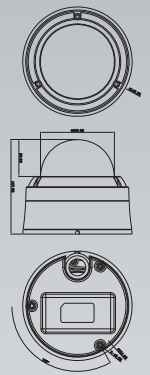
1.3 Megapixel Dual Streaming IR Vandal Proof IP Dome Camera

KCC-MIP551IR

Function

- 1.3 Megapixel 1/3" Sony Progressive CCD
- Up to 30 fps at 1280 x 720 (22.5fps at 1280 x 960)
- Dual Streaming (H.264/H.264, H.264/MJPEG)
- 24 IR LEDs Vandal Proof Dome
- Composite Video Output
- True Day & Night (ICR)
- PoE (Power Over Ethernet)
- f=3.6mm~16mm , F1.2 DC Auto Iris Lens
- DC Iris Lens Control
- Motion Detection
- Two Way Audio Communication (G.711/AAC)
- Adjustable Video Bit Rate : 32kbps ~ 8Mbps
- Adjustable Video Data Bandwidth : 2,400bps ~ 115,200bps
- 1 CH. Sensor Input & Alarm Output
- 1 CH. Audio In/Out (Mono, Line-In/Out)
- Various Protocols : TCP/IP, Multicast, UDP, HTTP, SMTP, FTP, DHCP, DNS, Dynamic DNS, RTP, RTSP, SNMP
- Full Technical Support with SDK & API

Dimensions



Specifications

Section		Specification
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
Camera	Image Sensor	Sony 1/3"", 1.3M CCD Image Sensor
	Lens	DC Auto Iris Verifocal f=3.6 ~ 16mm, F1.2, IR Cut Filter
	IR	24IR LEDs (TCAM-551IR)
	AE Operation	Mechanical Iris lens selection, Slow Shutter on/off Flicker-less, Backlight Function, Brightness. Max AGC Gain Auto White balance control
	AWB Operation	TCAM-551 : Color: 1.5Lux (Slow frame: 0.4Lux)
	MIN. Illuminance	TCAM-551IR: Color: 1.4Lux (Slow frame: 0.35Lux), B/W : 0Lux (IR LED ON)
	Motion Detection	On/Off
Video	Standards	Main Stream : H.264 Secondary Stream: H.264 / M-JPEG
	Output	1 x Composite (1 Vpp 75 Ohm, BNC)
	Resolution	1280x960 ~ 352x240, 13 Resolution steps
	Max Frame Rate	H.264/MJPEG: 22.5fps @ 1280x960, 30fps @ 1280x720 ~ 352x240
	Frame Rate Range	5 ~ 30 fps
	Bit Rate	30Kbps ~ 8M bps
Audio	Algorithm	G.711, AAC
	Sample Rate	G.711: 8KHz, AAC: 32KHz
	Bit Rate	G.711: 64Kbps , AAC: 64Kbps, 128Kbps, 196Kbps
	Input	1 xLine-In (Mini-Stereo, Single Mono)
	Output	1xLine-Out (Mini-Stereo, Single Mono)
Sensor / Alarm / etc	Sensor Input	1 x NO Contact
	Alarm Output	1 x NO Contact
	Reset Button	1 x Factory Reset Button
Software	True NVR/CMS	Live Monitoring, Recording, Search & Playback, Backup
Physical	Dimension	100 ø for Vandal Dome, 124 ø for Bottom
	Weight	TCAM-551 : 1012g / 2.2 lbs TCAM-551IR : 1050g/2.3 lbs
	Power	DC 12V, 0.5A Option : PoE: 802.3af
	Power Consumption	MAX. 6W
	Operation Temperature	-10℃ ~ 50℃ / 14 ℉ ~ 122℉

IP Camera

H.264 IP Camera

Dual Streaming IP True Day & Night C & CS Mount Camera

KCC-IP230

Function

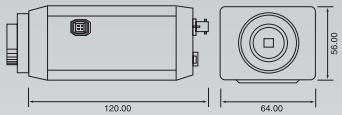
- H.264 Compression Algorithm
- PoE Support (Optional)
- 1/3" Super HAD Color CCD With 410K Pixels
- High Resoulution of 540TV Line
- True Day & Night (Optional)
- C/CS lens available
- Motion Detecton
- Bulitin OSD (ON Screen Display)
- DNR (Digital Noise Reduction) Chip
- Upto128X SENSE-UP
- BLC (Back Light Compensation)
- Privacy Image Masking with Free Position : 4 Zones
- Min. Illumination of 0.3 LUX @ F1.2 (Normal Color Mode) 0.002 LUX @ F1.2(Sens-up)
- Option -Dual Power (DC12V & AC24)

Specifications

Model no		KCC-IP230
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
Camera	Image Sensor	1/3" Sony Super HAD CCD, 410,000pixels
	Max. aperture Ratio	1:1.3~2.0
	Lens	C/CS Selective
	Back Light Compensation	On/Off/Auto
	Gain Control	AGC-L, AGC-H, OFF selectable
	White Balance	W-ATW/S-AWC/AWC/Manual
	Output	1 Composite (1 Vpp 75 Ohm, BNC)
	White Balance	MD 1 / MD 2 / Off
	Electric Shutter Speed	1/60 ~ 1/200,000 sec
	Min. Illumination	0.002Lux (Intensifier), 0.3Lux (F1.3)
	S/N Ratio	50dB (AGC Off)
	Motion Detection	MD1 / MD2 / OFF
Video	Standards	H.264 compression algorithm
	Data Rate	32kbps ~ 4Mbps
	Resolution	NTSC : 720x480, 720x240, 352x480, 352x240
		PAL : 720x576, 720x288, 352x576, 352x288
		540 TV Line
	Max Frame Rate	NTSC : Max 30fps / PAL : Max 25fps
	Frame Rate Range	NTSC : 0.2 ~ 30fps / PAL : 0.2 ~ 25fps
Audio	Standards	G.711
	Sample Rate	8Khz
	Data Rate	64kbps
	Input	1 Line-in (Mini-stereo)
	Output	1 Line-in (Mini-stereo)
Serial	Port	RS-422/485
	Data Rate	2,400bps ~ 115,200bps
Alarm / Sensor	Sensor Input	1
	Alarm Output	1
User Interface	System Status	LED, OSD
Software	CMS, Web Viewer	Live Monitoring, Recording, Search & Playback, Backup & Web Viewer
Physical	Dimension	114(W) X 64(D) X 56(H)mm
	Weight	340g (Without Lens)
	Power Source	DC 12V/5A, PoE(Power over Ethernet): 802.3af
	Power Consumption	Max 5W

Picture View

Dimensions



Dual Streaming IP True Day & Night Vandal Proof Varifocal Dome Camera

KCC-IP251 / 251IR

Function

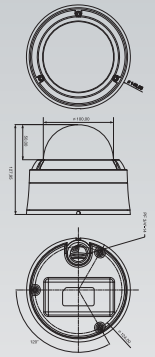
- H.264 Compression Algorithm
- PoE Support
- Vandal-Proof Dome Camera
- 1/3" Super HAD Color CCD With 410K Pixels
- High Resoulution of 540TV Line
- f=3~9mm, F No 1.4 DC Auto Iris lens
  f=2.8~11mm, F No 1.2 DC Auto Iris lens (Option)
- True Day & Night
- Motion Detection
- Built in OSD (ON Screen Display)
- DNR (Digital Noise Reduction) Chip
- Upto128X Sense-Up
- BLC (Back Light Compensation)
- Privacy Image Masking with Free Position : 4 Zones
- Min. illumination of 0.3 LUX @ F1.2 (Normal Color Mode)

Specifications

Model no		KCC-IP251
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
Camera	Image Sensor	1/3" Sony Super HAD CCD, 410,000pixels
	Total Pixel	NTSC : 811(H) x 508(V) / PAL -795(H) x 592 (V)
	Lens	f=3~9mm Auto DC Iris lens, DN(Option : f=2.8~11mm Auto DC Iris lens, DN)
	Max. aperture Ratio1:	1:1.4
	Back Light Compensation	On/Off/Auto
	Gain Control	AGC-L, AGC-H, OFF selectable
	White Balance	W-ATW/S-AWC/AWC/Manual
	Output	1 Composite (1 Vpp 75 Ohm, BNC)
	White Balance	W-ATW/S-AWC/AWC/Manual
	Electric Shutter Speed	1/60 ~ 1/200,000 sec
	Min. Illumination	0.002Lux (Intensifier), 0.3Lux (F1.3)
	S/N Ratio	50dB (AGC Off)
	Motion Detection	MD1 / MD2 / OFF
Video	Standards	H.264 compression algorithm
	Data Rate	32kbps ~ 4Mbps
	Resolution	NTSC : 720x480, 720x240, 352x480, 352x240
		PAL : 720x576, 720x288, 352x576, 352x288
		540 TV Line
	Max Frame Rate	NTSC : Max 30fps / PAL : Max 25fps
	Frame Rate Range	NTSC : 0.2 ~ 30fps / PAL : 0.2 ~ 25fps
Audio	Standards	G.711
	Sample Rate	8Khz
	Data Rate	64kbps
	Input	1 Line-in (Mini-stereo)
	Output	1 Line-in (Mini-stereo)
Serial	Port	RS-422/485
	Data Rate	2,400bps ~ 115,200bps
Sensor/Alarm	Sensor Input	1CH
	Alarm Output	1CH
Software	CMS, Web Viewer	Live Monitoring, Recording, Search & Playback, Backup & Web Viewer
Physical	Dimension	Ø100
	Weight	970g
	Power Source	DC 12V/5A, PoE(Power over Ethernet): 802.3af
	Power Consumption	Max 5W

Picture View

Dimensions



IP Camera

IP Mini Speed Dome Camera

Dual Streaming IP Day & Night 10X Zoom Mini Speed Dome Camera

KZC-IPSPT10 (X10)

Dual Streaming IP Day & Night 27X / 33X / 36X Zoom High Speed Dome Camera

KZC-IPSPT27 / 33 / 36

Specifications

Model No.		KZC-IPSPT10	
Signal Format		NTSC	PAL
Camera	Image Device	1/4" Interline Transfer CCD	
	Total Pixel	410K Pixels [811(H) x 508(V)]	470K Pixels [795(H) x 596(V)]
	Effective Pixel	380K Pixels [768(H) x 494(V)]	440K Pixels [752(H) x 582(V)]
	H. Resolution	500 TV Lines (Color), 570 TV Lines (B/W)	
	S/N Ratio	50dB (AGC Off)	
	Zoom	X10 Optical Zoom and X10 Digital Zoom	
	Focal Length	F1.8, f=3.8 ~ 38mm	
	MIN. Illuminance	0.7 Lux (Color) / 0.02 Lux (B/W) @ 50 IRE	
	Day & Night	Auto / Day / Night (IR Cut Filter)	
	Focus	Auto / Manual / Semi-Auto	
	Iris	Auto / Manual	
	Shutter Speed	x128 ~ 1/120000 sec	
	AGC	Normal / High / Off	
	White Balance	Auto / Manual (Red & Blue Gain Adjustable)	
	BLC	Low / Middle / High / Off	
	Flickerless	Selectable	
	SSNR	Low / Middle / High / Off	
	Other Functions	Frame Freeze Function, System Image Flip by Installation Type	
	Standards	H.264 compression algorithm	
Video	Data Rate	32kbps ~ 4Mbps	
	Resolution	NTSC : 720x480, 720x240, 352x480, 352x240	
		PAL : 720x576, 720x288, 352x576, 352x288	
	Max Frame Rate	NTSC : Max 30fps / PAL : Max 25fps	
	Frame Rate Range	NTSC : 0.2 ~ 30fps / PAL : 0.2 ~ 25fps	
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP	
Pan/Tilt	Range	Pan : 360°(Endless)	
		Tilt : 180°(Auto-Flip On) , 95°(Auto-Flip Off)	
	Pan/Tilt Speed	Preset : 360°/ sec	
		Manual : 0.05°/s~ 360°/ sec (Zoom Proportional)	
		Swing : 1°/s~ 180°/ sec	
	Preset	128 Presets with Labels / Independent Preset Characteristic Setup	
	Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)	
	Swing	8 Swings	
	Group	8 Groups (MAX. 20 Entries for Each Group)	
	Other Functions	Image Auto Flip, Auto Parking, Power-up Action & etc.	
Software	CMS, Web Viewer	Live Monitoring, Recording, Search & Playback, Backup & Web Viewer	
General	Protocol	Pelco-D, Pelco-P Selectable	
	Privacy Zone	4 Zones	
	OSD	English On / Off	
	Power	DC Type : DC 12V / 1.3A	
	Dimension	Dome : Ø115 mm / 4.5°	
		Housing : 168(Ø) x 160.5(H) mm / 6.6°± (Ø) x 6.3°± (H)	
	Weight	Approx. 2.2 Kg / 4.8 Lbs	
	Operating Temp.	0°C ~ 40°C / 32°F ~ 104°F	

Function

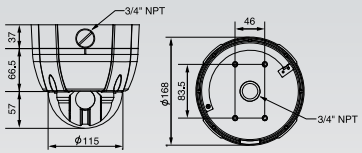
Compression Algorithm
- High Quality of H.264 compression Algorithm

Fast & Silent Motion
- No Accumulative error with preset function
- Shortest path by vector drive technology
- High accuracy with micro-stepping control technology
- Smooth Motion at high zoom magnification mode
- Lightning speed (Max.360°/sec)
  Smooth manual speed (Min.0.05°/sec)
- Lowest noise & Lowest vibration
- Endless 360°/sec Pan rotation

Superior Zoom camera
- x100 Zoom control (Optical x10, Digital x10)
- Day & Night (IR Cut Filter)

Powerful Functions
- Independent preset characteristic setup (AE, WB and etc.)
- 128 preset positions with Alphanumeric labels
- 4 pattern, 8 swing and 8 group functions
- 4 privacy zones (Spherical coordinates)
- System image flip by installation type
- Auto flip, Auto parking, power-up action
- Frame freeze function
- On-screen display on/off
- Built-in sensor In / Out function (4 in)
- Built-in Fan/Heater
- IP66 weatherproof
- Small size / Vandal-proof
  (Dome cover : PC / Housing & Accessories : AL)

Dimensions



Specifications

Model No.		KSC-IPSPT36	
Signal Format		NTSC	PAL
Camera	Image Device	1/4" SONY Ex-View CCD	
	Effective Pixel	380K Pixels [768(H) x 494(V)]	440K Pixels [752(H) x 582(V)]
	H. Resolution	470 TV Lines	460 TV Lines
	S/N Ratio	More than 50dB	
	Zoom	X36 Optical Zoom and X12 Digital Zoom	
	Focal Length	F1.6 ~ 4.5, f=3.4(Wide) ~ 122.4(Tele) mm	
	MIN. Illuminance	Day : 1.0 Lux (DSS Off) / Night : 0.01 Lux	
	Day & Night	Auto / Day / Night (IR Cut Filter)	
	Focus	Auto / Manual / Semi-Auto	
	AE Mode	Auto / Iris / Shutter / Manual / Brightness	
	White Balance	Auto / Manual (Red & Blue Gain Adjustable)	
	BLC	On / Off	
	Flickerless	On / Off	
Video	Standards	H.264 compression algorithm	
	Data Rate	32kbps ~ 4Mbps	
	Resolution	NTSC : 720x480, 720x240, 352x480, 352x240	
		PAL : 720x576, 720x288, 352x576, 352x288	
	Max Frame Rate	NTSC : Max 30fps / PAL : Max 25fps	
	Frame Rate Range	NTSC : 0.2 ~ 30fps / PAL : 0.2 ~ 25fps	
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)	
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP	
Pan/Tilt	Range	Pan : 360°(Endless) / Tilt : 95°	
	Pan/Tilt Speed	Preset : 360° / sec	
		Manual : 0.05°~ 360°/ sec (Zoom Proportional)	
		Swing : 1°~ 180°/ sec	
	Preset	128 Presets with Labels / Independent Preset Characteristic Setup	
	Pattern	4 Patterns (Approx. 5 Minutes for Each Pattern)	
	Swing	8 Swings	
	Group	8 Groups (MAX. 20 Entries for Each Group)	
	Other Functions	Auto Flip, Auto Parking, Power-up Action & etc.	
Software	CMS, Web Viewer	Live Monitoring, Recording, Search & Playback, Backup & Web Viewer	
General	Communication	RS-485	
	Protocol	Pelco-D, Pelco-P Selectable	
	Privacy Zone	8 Zones	
	Sensor In / Out	Built-in 4 Input / 2 Output	
	OSD	English On / Off	
	Fan / Heater	Built-in	
	Power	AC Type : AC 24V / 1.5A	
		DC Type : DC 12V / 2.5A	
	Dimension	Dome : Ø149 mm / 5.9°	
		Housing : 206(Ø) x 235(H) mm / 8.1° (Ø) x 9.2° (H)	
	Weight	Approx. 5 Kg / 11 Lbs	
	Operating Temp.	-30°C ~ 50°C / -22°F ~ 122°F	

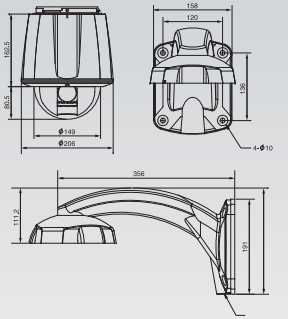
Function

Compression Algorithm
- High Quality of H.264 compression Algorithm

Fast & Silent Motion
- No Accumulative Error with Preset Function
- Shortest Path by Vector Drive Technology
- High Accuracy with Micro-Stepping Control Technology
- Smooth Motion at High Zoom Magnification Mode
- Lightening Speed (MAX. 360°/sec) &
  Smooth Manual Speed (MIN. 0.05°/sec)
- Lowest Noise & Lowest Vibration
- Endless 360° Pan Rotation
  Superior Zoom Camera
- X432 Zoom Control (Optical X36, Digital X12)
- Day & Night (IR Cut Filter)
- WDR

Powerful Functions
- Independent Preset Characteristic Setup (AE, WB and etc.)
- 128 Preset Positions with Alphanumeric Labels
- 4 Pattern, 8 Swing and 8 Group Functions
- 8 Privacy Zones (Spherical Coordinates)
- Auto Flip, Auto Parking, Power-up Action
- On-Screen Display On/Off
- Built-in Sensor In/Out Function (4 In / 2 Out)
- Small Size / Built-in Fan & Heater / Weather-Proof
- Vandal-Proof
  (Dome Cover : PC / Housing & Accessories : AL)

Dimensions



IP Camera

IP Mini Speed Dome Camera

PTZ Controller

KJC-2000U

KVS-100

KVS-400

KVS-100 is the high performance server system that transmits the high definition video & audio in real time. Since KVS-100 is implemented by H.264 compression technology over the IP Network such as ADSL, VPN, they provide the optimal video transmission quality with their highly effective video compression features and more increased adaptability to the existing networks.
H.264 provide more than 50% increased compression capacity, under the same conditions. Therefore, they are allow you to transmit the high resolution video data, even with a lower bandwidth.

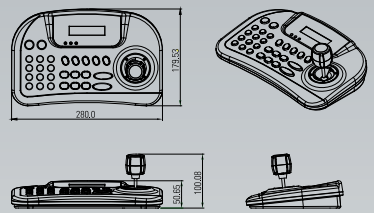
H.264 1CH / 4CH Video Server

KVS-100 / 400

Function

- Control from 1~255 cameras.
- Multiple protocol supported in each channel
- RS-485 / RS-422 communication (Tx : 3 port, Trx : 1 port)
- Programmable user preferences. (Preset, Tour, Pattern, etc)
- Built-in 3-Axis proportional joystick
- Easy upload programmed data via serial communication
- USB mouse function
- Built-in 2 lines character LCD.
- User password support
- programmable transmission speed for each ID. (2.4~57.6kbps)
- Operate with 9V battery
- DVR interface

Dimensions



Specifications

Model	KJC-2000U
Keyboard Communication	Interface : RS-485 (Tx 3port, Trx 1port)
	Pan / Tilt operating distance : 4700 ft (1027m) No 24 AWG wire
	Multiple Protocol Support (Baud rate selectable)
	Terminal Block (8p connector)
Keyboard Keypad	Rubber button
	Numeric keypad and camera function key
Joystick	Proportional 3-Axis, variable speed with zoom
Input Voltage	12VDC or 9V battery (battery mode)
Power Consumption	Max. 140mA
LCD Display	2 lines character LCD
Operating Temperature	0℃ to 45℃
Humidity	10%-70% RH
Certification	CE, FCC, RoHS
Dimension, Weight	280(W) x 92(H) x 174(D), 0.7kg

Function

KVS-100 (1CH)

- High quality H.264 Algorithm
- Full-duplex audio/video transmission
- 30fps/25fps @ full D1 resolution
- 1:N Multi-casting and relayed data transmission
- Real time monitoring / recording / playback through CMS viewer S/W and Internet Explorer
- De-Interlaced Video at 30fps
- Dynamic IP support with Dynamic DNS
- Power over Ethernet (PoE) support (optional)
- Data storage against network failure (USB2.0)
- Watchdog for system recovery
- Support for PTZ and Controller
- Encoder / Decoder / Duplex selectable
- Motion detection

KVS-400 (4CH)

- Dual streaming (H.264/H.264, H.264/MJPEG)
- Encoder
- Full-duplex audio/video transmission
- 30fps/25fps @ full D1 resolution
- 1:N Multi-casting and relayed data transmission
- Real time monitoring/recording/playback through CMS viewer S/W and Internet Explorer
- Dynamic IP support with Dynamic DNS
- Power over Ethernet(PoE) support
- Data storage against network failure or event (USB2.0)
- Watchdog for system recovery
- Support for PTZ and Controller
- Motion detection

Specifications

System	System Mode	Encoder, Decoder, Duplex
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
Video	Standards	H.264 compression algorithm
	Data Rate	32kbps ~ 4Mbps
	Resolution	NTSC : 720x480, 720x240, 352x480, 352x240
		PAL : 720x576, 720x288, 352x576, 352x288
	Max Frame Rate	NTSC : Max 30fps / PAL : Max 25fps
	Frame Rate Range	NTSC : 0.2 ~ 30fps / PAL : 0.2 ~ 25fps
	Input	1 Composite (1 Vpp 75 Ohm, BNC)
	Output	1 Composite (1 Vpp 75 Ohm, BNC)
	Motion Detection	Sensitivity Adjustment, OSD Display
Audio	Standards	G.711
	Sample Rate	8Khz
	Data Rate	64kbps
	Input	1 Line-in (Mini-stereo)
	Output	1 Line-in (Mini-stereo)
Serial Port	Port1	RS-232 (D-Sub 9Pin)
	Port2	RS-422/485 (Terminal Block)
	Data Rate	2,400bps ~ 115,200bps
Sensor/Alarm/ Beep	Sensor Input	2CH : NC/NO Contact
	Alarm Output	2CH : 1A 30V DC, 0.5A 125V AC
	Beep	1
User Interface	System Status	LED, OSD
Storage	Recording/Backup	USB 2.0 Port
	CMS	Live Monitoring, Recording, Search & Playback, Backup
Software Physical	Dimension	134(W) X 125(D) X 35(H)mm
	Weight	0.52Kg
	Power Source	DC 12V/5A, PoE (Power over Ethernet): 802.3af
	Power Consumption	Max 5W

System	System Mode	Encoder
Network	Network Interface	Ethernet 10/100Base-T (RJ-45)
	Network Protocol	TCP/IP, UDP, Multicast, DHCP, SMTP, HTTP, SNMP, RTP, RTSP
Video	Standards	Main Stream : H.264 Secondary Stream : H.264
	Data Rate	32Kbps ~ 2Mbps
	Resolution	NTSC : 720x480, 720x240, 352x480, 352x240 PAL : 720x576, 720x288, 352x576, 352x288
	Max Frame Rate	NTSC : Max 30fps / PAL : Max 25fps
	Frame Rate Range	NTSC : 0.2 ~ 30fps / PAL : 0.2 ~ 25fps
	Input	4 x Composite (1 Vpp 75 Ohm, BNC)
	Motion Detection	Sensitivity Adjustment
Audio	Standards	G.711
	Sample Rate	8Khz
	Data Rate	64kbps
	Input	1 x Line-In (Mini-Stereo, Single Mono)
	Output	1 x Line-Out (Mini-Stereo, Single Mono)
Serial	Port 1	1 x RS-232 (Terminal Block)
	Port 2	1 x RS-422/485 (Terminal Block)
	Data Rate	2,400bps ~ 115,200bps
Sensor / Alarm / etc	Sensor Input	4 x NO Contact (Terminal Block)
	Alarm Output	4 x NO Contact (Terminal Block)
	Beep	1 x Buzzer 88dB Min
	Reset Button	1 x Factory Reset Button
User Interface	System Status	LED
Storage	Recording/Backup	1 x USB 2.0 Port
Software	True CMS/Web Viewer	Live Monitoring, Recording, Search & Playback, Backup
Physical	Dimension	134(W) X 125(D) X 35(H)mm
	Weight	486g
	Power Source	DC 12V/0.5A, PoE(Power over Ethernet) : 802.3af
	Power Consumption	Max 6W
	Operating Temp.	-10℃ ~ 50℃ / 14℉ ~ 122℉

IP Camera

Video Server

Central Monitoring System)

CMS S/W

<Live View>

<Search View>

<T-Map>

Function

- Up to 36 Channels display & Recording Simultaneously
- Up to 16 Channel Playback Simultaneously
- Event monitoring and Alarm Notification
- Support Emap Application
- Remote Search
- Multi-monitor support (Max 4 Monitor)
- On screen PTZ control
- Two way audio communication
- Easy Installation
- Connection to Streaming Server (Relay)
- Digital zoom support
- Automatic login after abnormal termination
- New server / Camera model and JPEG stream support
- Control of external matrix switch
- Support of Multi languages
- Working with Intelligent Video Server
- Export AVI backup
- Digital watermark on captured JPEG image
- E-mail and FTP transfer of snapshot image
- Dual Streaming support
- Megapixel camera support(1920x1080)

Network Video Recorder

NVR

<NVR>

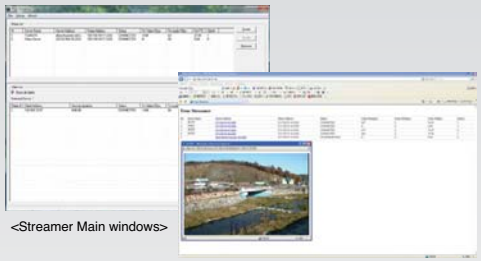
<Live View>

<Search View>

Function

- Support Stable Remote Recording upto128ch
- Support all models (Megapixel Cameras, IP Cameras Video Servers, Decoders)
- Dual monitor display up to 36ch + 36ch)
- Remote Play back upto16ch
- Support Schedule, Event Recording through Network.

Streamer



<Streamer Main windows>

<Access through Web browser>

Function

- True Streamer is a streaming server which provides users with the relay ofreal time video and audiodata from IP cameras and video servers.
- Max number of input & output channels
  - Input channels: 256
  - Output channels: 1024
  - Actual performance depends on the bitrateof each channel, CPU and network performance of the PC etc.
- Media & control
  - Video: server to client
  - Audio: bidirectional
  - Event : server to client
  - Control (PTZ/Alarm): client o server
- Monitoring of operating status
  - List of active video servers, bitrateand framerate
  - List of clients connected to each server, with bitrate, framerateand flow statistics
- Two modes of streaming session creation
  - Manual registration
  - On-demand creation by client

IR-100

KIR-050 / 070 / 100

IR Illuminator

IR-100 / KIR-050 / 070 / 100

Function

IR-100

- HIGH Sensitive Professional LEDs
- 120M IR Distance at the Low Light Condition
- IR Sensitivity Level by Volume
- Low Power Consumption
- DC 12V and AC 24V Dual Power Operation
- Built-In 25mm Size IR LEDs of 8pcs & 10mm Size IR LEDs of 6pcs

KIR-050 / 070 / 100

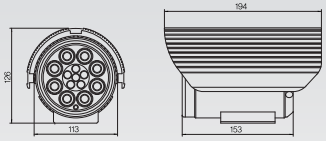
- Distances up to 120m
- Latest LED technology
- High power -low running costs
- Various angles (10° to 180°) through the adaptive combination
- 10 year life
- Vandal resistant from Aluminum and PC structure
- Zero Light Pollution
- Semi-Covert (850nm) or Covert (940nm) Options

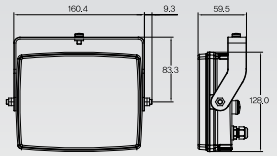
Specifications

Model no.	IR-100
LED Specification	850nm 50 Degree 25mm Super IR LED With Collimator X 8EA 30 Degree 10mm IR LED X 6 EA
IR Beam Distance	Max. 120M (Outdoor)
Product Life Time	20,000 Hours
Power source	12V DC(2.5A Min) & 24V AC(1.2A Min)
Power Consumption	Nominal 20 Watts (1.6A / 12V)
Output Terminal	0.7M (about 2.5ft) DIY cable
IR Option	IR Sensitivity, IR ON / OFF Mode Selection, External Sync.
CDS Sensitivity	By Volume On the Back Side
IR ON/OFF Mode Selection	By Switch On the Back Side
Operating Temperature	-13F ~ 104F (-25˚C + 50˚C)
Storage Temperature	-22F ~ 140F (-30˚C + 60˚C)
Operating Humidity	Up to 85%RH
Dimension	110mm(W) ×110mm(H) ×155mm(D)
Weight	1.8kg(w/sunshield)
Material	Aluminum Casting / Extrusion

Model	KIR-050	KIR-070	KIR-100
Infra-red distance	50M	70M	100M
Angle	70°	30°	10°
LEDs	High efficiency LED array with IR distance control power circuit		
IR Q'TY	30PCS		
IR SIZE	SMD TYPE		
Power consumption	22W		
Size	180(L) X 60(W) X 60(H)mm		
Wave length	850nm		
Grade of waterproof	IP66		
Power	DC12V / AC24V optional		
Main material	Body : Aluminum construction with heat sink function Front Window : engineering plastic (black)		
Working temperature	-40˚C~50˚C		
Working humidity	10%~99%		
Net weight	1.6Kg		

Dimensions





Indoor / Ourdoor Housing

KH-5120 / 5120S

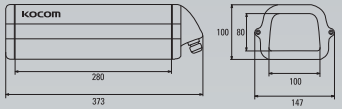
Specifications

Model no.	KH-5120	KH-5120S (Sun Shield)
External dimension(mm)	147(W) x 100(H) x 373(D)	154.2(W) x 425(D)
Internal dimension (mm)	100(W) x 80(H) x 280(D)	
Construction	Extruded Aluminum Body and UV protected plastic Front/End	
Finish	Semi gloss Ivory (EX8816)	
Window	3 mm Plastic Glass, 68(H) x 90(W)mm	
Cable access	3 Liquid tight compression fittings located at bottom of rear cap	
Camera access	Slide access from rear of housing with Detectable End cap	
Camera mounting	Slot allows adjustable camera positioning with 1/4 ~ 20 screws	
Housing mounting	3 1/4 ~ 20 tapped holes on the bottom of mounting bracket	
Weight (Approx.)	1.3kg	
Power (Heater)	AC110/220V	
Operating temperature	-35℃ ~ 49℃	

Function

- Available in 12inch Lengths
- Simple, Detachable end Cap Provides easy Installation and Service
- Three water-tight compression Cable Entries Provide Protection from dust and Water

Dimensions



Specifications

Model no.	KBR-101	KBR-102	KBR-103	KBR-1000
Material	Aluminum	Aluminum	Aluminum	Steel
TYPE	'I'	'I'	'L'	Up-down ±52°
Camera Fixing	1.4" 20-UNC	1.4" 20-UNC	1.4"20-UNC	Left-Right 360°
Max load	2.5kg	2.5kg	2.5kg	3.5kg
Weight (Approx.)	210g	230g	360g	1500g
Dimensions (mm)	68(W) x 120(L)	68(W) x 150(L)	90(W) x 180(L)	100(W) x 157(L)
Standard Accessory	SCREW x 3EA	SCREW x 3EA	SCREW x 3EA	SCREW x 3EA

Bracket

KBR-1000 KBR-101 KBR-102 KBR-103

Varifocal Lens

KVL-0550AD

Varifocal Lens

KVL-2812AD

KVL-0550AD KVL-2812AD

Specifications

Contents Item No	KVL-2812AD		Focal length	2.8~12MM		Contents Item No	KVL-0550AD		Focal length	5~50MM	
Sensing Area	1/3"&1/4"		IRIS	D/C		Sensing Area	1/3"&1/4"		IRIS	D/C	
Back FocalLength	9.75~20.46		Maximum relative(F) aperture	F1.4~360		Back FocalLength	98~11.7		Maximum relative(F) aperture	F1.4~360	
Angular	D	1/3"	134 ≃32.0 °	Angular	D	92.7 ≃23.4 °	Angular	D	1/3"	60 ≃7.4 °	Angular	D	5.2 ≃47 °
Field	H		99. ≃25.v	Field	H	1/4" 72.5 ≃18.8 °	Field	H		49.4 ≃5.8 °	Field	H	1/4" 4.1 ≃38 °
Of View	V		72.5 ≃18.7 °	OfView	V	53.5 ≃14.0 °	Of View	V		38 ≃4.4 °	OfView	V	3.1 ≃28.8 °
Dimension(QXL)(mm)	34.4X61		Remarks	CS MOUNT		Dimension(QXL)(mm)	44X65		Remarks	CS MOUNT	

LENS SERIES

Fixed Lens C-Mount Type

KCL-004 KCL-006 KCL-008 KCL-012 KCL-016

Contents Item no	Focal Length (mm)	Sensing	Frange Back (mm)	Iris Fixed	Lens consruction	Maximum Relative(F)Aperture	Angular Field of View (Diagonal)	Object Distance(cm)	Weight
KCL-004	4.0	1/3 & (1/4")	17.526	Fixed	4/4	F2.0	81 &(61)°	10~∞	28
KCL-006	6.0	1/3 & (1/4")	17.526	Fixed	5/5	F2.0	54 &(40.5)°	10~∞	30
KCL-008	8.0	1/3 & (1/4")	17.526	Fixed	5/5	F2.0	38.6 &(29)°	10~∞	33
KCL-012	12.0	1/3 & (1/4")	17.526	Fixed	3/3	F2.0	26 &(19.7)°	20~∞	27
KCL-016	16.0	2/3, 1/2, 1/3"	17.526	Fixed	4/4	F1.6	38 °,28 °,21 °	40~∞	27

Varifocal Lens

KV-3580M KV-3580AD KV-3580AV KVL-3580M KVL-3580AD

Items		KV-3580M	KV-3580AD	KV-3580AV	KVL-3580M	KVL-3580AD
Focal length		3.5~8.0mm	3.5~8.0mm	3.5~8.0mm	3.5~8.0mm	3.5~8.0mm
Max. Aperture		1:1.4	1:1.4	1:1.4	1:1.4	1:1.4
Max. Image format size		4.8×3.6(ϕ 6mm)	4.8×3.6(ϕ 6mm)	4.8×3.6(ϕ 6mm)	4.8×3.6(ϕ 6mm)	4.8×3.6(ϕ 6mm)
Operation	Iris	Manual Iris	Auto Iris F1.4~360	Auto Iris F1.4~360	Manual Iris	Auto Iris F1.4~360
	Focus	Manual 0.2m~Inf	Manual 0.2m~Inf	Manual 0.2m~Inf	Manual 0.2m~Inf	Manual 0.2m~Inf
	Zoom	Manual 3.5~8.0mm	Manual 3.5~8.0mm	Manual 3.5~8.0mm	Manual 3.5~8.0mm	Manual 3.5~8.0mm
Angle of view	D	88.7°~44.8°	88.7°~44.8°	88.7°~44.8°	88.7°~44.8°	88.7°~44.8°
	H	73.4°~35.8°	73.4°~35.8°	73.4°~35.8°	73.4°~35.8°	73.4°~35.8°
	V	55.9~26.8°	55.9~26.8°	55.9~26.8°	55.9~26.8°	55.9~26.8°
Operation temperture		-10℃+50℃	-10℃+50℃	-10℃+50℃	-10℃+50℃	-10℃+50℃
Flange back		12.5mm	12.5mm	12.5mm	12.5mm	12.5mm
Back focal length		8.3mm	8.3mm	8.3mm	8.3mm	8.3mm
Mount		CS-Mount	CS-Mount	CS-Mount	CS-Mount	CS-Mount
Filter size (mm)		M37.5×P0.5	M37.5×P0.5	M37.5×P0.5	M37.5×P0.5	M37.5×P0.5
Dimensions (mm)		41×41.0×53.3	41×45.8×53.3	41×45.8×53.3	33×33×50.5	74×73.5×48.5
Weight (Approx.)		118g	121g	128g	45g	60g

CAMERA LINEUP

Zoom Camera

KVR-A510 — 04~05 page

KZC-SPT33IN / SPT330UT
33X Optical / 12X Digital Mini Speed Dome Camera — 06 page

KJC-2000
System Keypad Joystick Controller — 07 page

KZC-VISPT10 / VOSPT10
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KCB-1000W / KCB-100W / KCB-100P
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KCC-421 / KCC-P421
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Security LCD Monitor — 45 page

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Entry Level H.264 Standalone DVR — 47 page

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Since 1976

History & Awards

10 Awarded World-class Product
09 Awarded Premium Brand by Women Customer
08 Selected as the Grand Prize for Premium Brand in 2008
Awarded a letter of commendation from Ministry of Knowledge Economy
Selected a Wallpad as a Good-Design Product
Acquired a TTA Certificate for a Home Gateway of Kocom
Acquired MIC Certification for Home Gateway(KHG-108)
07 Participated in the development and demonstration project
on the integrated electric-safety management system suitable for U-City
Acquired a certification for Wall-Pad
06 Awarded the Next Generation World Best Product Prize with Home Network System
05 Ranked at 15th from 2003/2004 World's Top 50 Security Companies (A&S international)
05 Selected as 2005 Korea Leading Campany KOCOM from Korea Times
04 Developed the intelligent Home Network products
04 Ranked at 17th from 2002/2003 World's Top 50 Security Companies (A&S international)
03 Developed the fingerprint verification unmanned security system
03 Awarded the Top Superiority Prize at "Digital Innovation Grand Prix"
(Prize of SMBA Chief - Home Network)
03 Developed and produced 3.3M digital camera
01 Nominated as INNO-BIZ company (SMBA)
01 Developed the Cyber APT System for export (Japan)
01 Renamed to KOCOM Co. Ltd.
01 Developed world-smallest and lightest digital dual camera
00 Developed DVR (Digital Video Recorder)
00 Developed Home Manager (Cyber APT terminal)
00 Started home network business (Cyber APT terminal)
98 Awarded Superior venture company prize
97 Listed in KOSTAK (A15710)
96 Developed digital still camera first in Korea
96 Developed PC camera first in Korea
95 Listed as one of 100 prospective SMBs Developed unmanned security system
94 Developed the first intelligent system (IAS & ISS) in Korea
94 Developed the first colored digital CCTV in Korea (second in the world)
93 Developed colored video doorphone
88 Developed home automation
87 Selected as one of prospective SMBs
87 Developed the first CCD type videophone
80 Incorporated Korea Telecommunication Co. Ltd.
76 Established Korea Telecommunication

KOCOM commits itself to grow to a true leader for future digital world.

KOCOM's vision is to create residential space where anyone can enjoy their life with ease, comfort and safety, by enabling them to access to the space anytime and anyplace through home network, and ultimately to lay a cornerstone of digital home that is essential to ubiquitous life where everyone can enjoy happier life.